

ATOM	9522	CA	THR	F	87	61.283	68.231	63.915	1.00	52.56	F
ATOM	9523	CB	THR	F	87	59.991	67.888	64.665	1.00	50.66	F
ATOM	9524	OG1	THR	F	87	60.052	68.448	65.984	1.00	59.40	F
ATOM	9525	CG2	THR	F	87	59.815	66.397	64.759	1.00	46.29	F
ATOM	9526	C	THR	F	87	61.122	69.635	63.331	1.00	54.84	F
ATOM	9527	O	THR	F	87	60.284	69.849	62.459	1.00	52.52	F
ATOM	9528	N	SER	F	88	61.923	70.583	63.815	1.00	58.25	F
ATOM	9529	CA	SER	F	88	61.864	71.962	63.344	1.00	57.78	F
ATOM	9530	CB	SER	F	88	60.821	72.739	64.147	1.00	60.26	F
ATOM	9531	OG	SER	F	88	61.278	72.975	65.472	1.00	60.21	F
ATOM	9532	C	SER	F	88	63.217	72.642	63.524	1.00	59.17	F
ATOM	9533	O	SER	F	88	64.019	72.224	64.363	1.00	58.40	F
ATOM	9534	N	GLU	F	89	63.472	73.686	62.738	1.00	57.60	F
ATOM	9535	CA	GLU	F	89	64.719	74.414	62.889	1.00	54.32	F
ATOM	9536	CB	GLU	F	89	64.977	75.359	61.714	1.00	56.59	F
ATOM	9537	CG	GLU	F	89	65.999	76.448	62.041	1.00	54.92	F
ATOM	9538	CD	GLU	F	89	66.605	77.089	60.810	1.00	57.24	F
ATOM	9539	OE1	GLU	F	89	65.879	77.336	59.822	1.00	57.16	F
ATOM	9540	OE2	GLU	F	89	67.817	77.357	60.839	1.00	56.41	F
ATOM	9541	C	GLU	F	89	64.585	75.206	64.176	1.00	51.93	F
ATOM	9542	O	GLU	F	89	63.611	75.918	64.393	1.00	52.45	F
ATOM	9543	N	THR	F	90	65.585	75.056	65.022	1.00	50.24	F
ATOM	9544	CA	THR	F	90	65.647	75.689	66.317	1.00	47.99	F
ATOM	9545	CB	THR	F	90	66.831	75.102	67.078	1.00	46.15	F
ATOM	9546	OG1	THR	F	90	66.447	74.833	68.424	1.00	54.70	F
ATOM	9547	CG2	THR	F	90	68.008	76.054	67.052	1.00	41.07	F
ATOM	9548	C	THR	F	90	65.783	77.210	66.259	1.00	49.56	F
ATOM	9549	O	THR	F	90	65.989	77.779	65.195	1.00	49.13	F
ATOM	9550	N	PRO	F	91	65.626	77.889	67.411	1.00	54.13	F
ATOM	9551	CD	PRO	F	91	64.982	77.382	68.639	1.00	55.21	F
ATOM	9552	CA	PRO	F	91	65.752	79.349	67.471	1.00	54.45	F
ATOM	9553	CB	PRO	F	91	65.253	79.677	68.882	1.00	54.61	F
ATOM	9554	CG	PRO	F	91	64.251	78.599	69.142	1.00	52.81	F
ATOM	9555	C	PRO	F	91	67.230	79.702	67.278	1.00	52.70	F
ATOM	9556	O	PRO	F	91	68.093	78.848	67.467	1.00	52.27	F
ATOM	9557	N	ARG	F	92	67.527	80.952	66.932	1.00	54.25	F
ATOM	9558	CA	ARG	F	92	68.913	81.354	66.690	1.00	55.23	F
ATOM	9559	CB	ARG	F	92	68.983	82.293	65.467	1.00	57.07	F
ATOM	9560	CG	ARG	F	92	68.179	83.580	65.567	1.00	63.55	F
ATOM	9561	CD	ARG	F	92	68.453	84.505	64.371	1.00	63.28	F
ATOM	9562	NE	ARG	F	92	67.944	85.875	64.536	1.00	69.03	F
ATOM	9563	CZ	ARG	F	92	68.058	86.608	65.648	1.00	72.59	F
ATOM	9564	NH1	ARG	F	92	68.654	86.114	66.734	1.00	69.14	F
ATOM	9565	NH2	ARG	F	92	67.606	87.858	65.667	1.00	69.92	F
ATOM	9566	C	ARG	F	92	69.707	81.970	67.843	1.00	51.92	F
ATOM	9567	O	ARG	F	92	69.220	82.846	68.549	1.00	58.43	F
ATOM	9568	N	VAL	F	93	70.934	81.481	68.022	1.00	44.48	F
ATOM	9569	CA	VAL	F	93	71.865	81.972	69.032	1.00	40.61	F
ATOM	9570	CB	VAL	F	93	72.679	80.839	69.651	1.00	36.13	F
ATOM	9571	CG1	VAL	F	93	73.711	81.401	70.615	1.00	33.94	F
ATOM	9572	CG2	VAL	F	93	71.772	79.886	70.351	1.00	39.69	F
ATOM	9573	C	VAL	F	93	72.849	82.892	68.299	1.00	44.22	F
ATOM	9574	O	VAL	F	93	73.112	82.691	67.110	1.00	45.89	F
ATOM	9575	N	VAL	F	94	73.403	83.893	68.985	1.00	45.01	F
ATOM	9576	CA	VAL	F	94	74.332	84.783	68.296	1.00	44.36	F
ATOM	9577	CB	VAL	F	94	73.958	86.294	68.415	1.00	43.12	F
ATOM	9578	CG1	VAL	F	94	72.440	86.486	68.292	1.00	42.50	F
ATOM	9579	CG2	VAL	F	94	74.524	86.879	69.689	1.00	33.31	F

ATOM	9580	C	VAL	F	94	75.776	84.646	68.732	1.00	46.04	F
ATOM	9581	O	VAL	F	94	76.092	84.436	69.910	1.00	44.15	F
ATOM	9582	N	TYR	F	95	76.646	84.760	67.737	1.00	46.59	F
ATOM	9583	CA	TYR	F	95	78.077	84.694	67.935	1.00	44.77	F
ATOM	9584	CB	TYR	F	95	78.673	83.581	67.074	1.00	39.33	F
ATOM	9585	CG	TYR	F	95	78.462	82.222	67.666	1.00	34.11	F
ATOM	9586	CD1	TYR	F	95	77.201	81.652	67.699	1.00	32.81	F
ATOM	9587	CE1	TYR	F	95	76.980	80.449	68.336	1.00	31.64	F
ATOM	9588	CD2	TYR	F	95	79.512	81.542	68.283	1.00	37.74	F
ATOM	9589	CE2	TYR	F	95	79.303	80.334	68.927	1.00	37.66	F
ATOM	9590	CZ	TYR	F	95	78.029	79.797	68.951	1.00	38.90	F
ATOM	9591	OH	TYR	F	95	77.793	78.611	69.611	1.00	49.26	F
ATOM	9592	C	TYR	F	95	78.640	86.053	67.530	1.00	44.90	F
ATOM	9593	O	TYR	F	95	78.422	86.520	66.399	1.00	45.12	F
ATOM	9594	N	ASN	F	96	79.347	86.680	68.465	1.00	38.91	F
ATOM	9595	CA	ASN	F	96	79.945	87.984	68.240	1.00	36.44	F
ATOM	9596	CB	ASN	F	96	79.058	89.063	68.814	1.00	40.01	F
ATOM	9597	CG	ASN	F	96	78.381	88.622	70.074	1.00	45.96	F
ATOM	9598	OD1	ASN	F	96	77.190	88.316	70.059	1.00	55.80	F
ATOM	9599	ND2	ASN	F	96	79.134	88.560	71.177	1.00	44.93	F
ATOM	9600	C	ASN	F	96	81.306	88.108	68.883	1.00	36.73	F
ATOM	9601	O	ASN	F	96	81.518	88.939	69.760	1.00	37.39	F
ATOM	9602	N	SER	F	97	82.240	87.285	68.448	1.00	34.30	F
ATOM	9603	CA	SER	F	97	83.570	87.358	68.998	1.00	32.25	F
ATOM	9604	CB	SER	F	97	83.557	86.975	70.471	1.00	18.38	F
ATOM	9605	OG	SER	F	97	84.852	86.545	70.864	1.00	28.27	F
ATOM	9606	C	SER	F	97	84.477	86.438	68.214	1.00	34.32	F
ATOM	9607	O	SER	F	97	84.059	85.376	67.776	1.00	34.88	F
ATOM	9608	N	ARG	F	98	85.716	86.869	68.016	1.00	39.00	F
ATOM	9609	CA	ARG	F	98	86.672	86.067	67.283	1.00	40.96	F
ATOM	9610	CB	ARG	F	98	87.899	86.899	66.894	1.00	42.78	F
ATOM	9611	CG	ARG	F	98	87.639	87.970	65.839	1.00	52.50	F
ATOM	9612	CD	ARG	F	98	88.947	88.566	65.296	1.00	55.58	F
ATOM	9613	NE	ARG	F	98	88.714	89.522	64.209	1.00	63.97	F
ATOM	9614	CZ	ARG	F	98	88.182	90.736	64.363	1.00	67.50	F
ATOM	9615	NH1	ARG	F	98	87.820	91.170	65.567	1.00	66.11	F
ATOM	9616	NH2	ARG	F	98	88.003	91.520	63.306	1.00	66.98	F
ATOM	9617	C	ARG	F	98	87.079	84.935	68.202	1.00	45.04	F
ATOM	9618	O	ARG	F	98	87.726	83.976	67.782	1.00	47.99	F
ATOM	9619	N	THR	F	99	86.686	85.045	69.466	1.00	47.95	F
ATOM	9620	CA	THR	F	99	87.018	84.020	70.443	1.00	50.09	F
ATOM	9621	CB	THR	F	99	86.879	84.549	71.865	1.00	48.50	F
ATOM	9622	OG1	THR	F	99	87.563	85.801	71.979	1.00	50.11	F
ATOM	9623	CG2	THR	F	99	87.479	83.564	72.840	1.00	46.62	F
ATOM	9624	C	THR	F	99	86.102	82.810	70.302	1.00	51.67	F
ATOM	9625	O	THR	F	99	84.873	82.953	70.270	1.00	52.27	F
ATOM	9626	N	ASP	F	100	86.702	81.623	70.227	1.00	50.71	F
ATOM	9627	CA	ASP	F	100	85.926	80.393	70.094	1.00	51.54	F
ATOM	9628	CB	ASP	F	100	86.835	79.168	70.006	1.00	54.90	F
ATOM	9629	CG	ASP	F	100	87.414	78.961	68.628	1.00	60.25	F
ATOM	9630	OD1	ASP	F	100	86.726	79.272	67.625	1.00	60.94	F
ATOM	9631	OD2	ASP	F	100	88.557	78.461	68.557	1.00	58.96	F
ATOM	9632	C	ASP	F	100	84.965	80.168	71.246	1.00	50.29	F
ATOM	9633	O	ASP	F	100	85.379	79.902	72.366	1.00	50.20	F
ATOM	9634	N	LYS	F	101	83.679	80.268	70.948	1.00	51.19	F
ATOM	9635	CA	LYS	F	101	82.619	80.041	71.915	1.00	50.50	F
ATOM	9636	CB	LYS	F	101	81.525	81.093	71.742	1.00	52.71	F
ATOM	9637	CG	LYS	F	101	80.194	80.750	72.391	1.00	59.31	F

ATOM	9638	CD	LYS	F	101	79.175	81.861	72.174	1.00	60.20	F
ATOM	9639	CE	LYS	F	101	77.850	81.545	72.838	1.00	59.89	F
ATOM	9640	NZ	LYS	F	101	76.948	82.714	72.696	1.00	57.76	F
ATOM	9641	C	LYS	F	101	82.069	78.649	71.591	1.00	49.57	F
ATOM	9642	O	LYS	F	101	82.205	78.174	70.461	1.00	45.39	F
ATOM	9643	N	PRO	F	102	81.463	77.968	72.581	1.00	50.13	F
ATOM	9644	CD	PRO	F	102	81.544	78.203	74.031	1.00	50.38	F
ATOM	9645	CA	PRO	F	102	80.918	76.631	72.325	1.00	48.48	F
ATOM	9646	CB	PRO	F	102	80.736	76.048	73.732	1.00	47.91	F
ATOM	9647	CG	PRO	F	102	81.741	76.801	74.549	1.00	50.79	F
ATOM	9648	C	PRO	F	102	79.599	76.692	71.578	1.00	43.97	F
ATOM	9649	O	PRO	F	102	78.965	77.738	71.496	1.00	42.60	F
ATOM	9650	N	TRP	F	103	79.214	75.567	71.001	1.00	41.56	F
ATOM	9651	CA	TRP	F	103	77.939	75.462	70.303	1.00	40.22	F
ATOM	9652	CB	TRP	F	103	78.160	74.757	68.970	1.00	35.41	F
ATOM	9653	CG	TRP	F	103	76.948	74.658	68.142	1.00	31.77	F
ATOM	9654	CD2	TRP	F	103	76.499	73.504	67.430	1.00	30.19	F
ATOM	9655	CE2	TRP	F	103	75.314	73.866	66.753	1.00	23.26	F
ATOM	9656	CE3	TRP	F	103	76.988	72.197	67.292	1.00	29.14	F
ATOM	9657	CD1	TRP	F	103	76.045	75.647	67.884	1.00	31.19	F
ATOM	9658	NE1	TRP	F	103	75.056	75.179	67.048	1.00	26.12	F
ATOM	9659	CZ2	TRP	F	103	74.604	72.969	65.960	1.00	21.66	F
ATOM	9660	CZ3	TRP	F	103	76.278	71.308	66.500	1.00	28.86	F
ATOM	9661	CH2	TRP	F	103	75.099	71.702	65.843	1.00	23.54	F
ATOM	9662	C	TRP	F	103	77.167	74.602	71.326	1.00	38.41	F
ATOM	9663	O	TRP	F	103	77.343	73.378	71.412	1.00	36.08	F
ATOM	9664	N	PRO	F	104	76.333	75.261	72.145	1.00	35.98	F
ATOM	9665	CD	PRO	F	104	75.865	76.625	71.826	1.00	35.14	F
ATOM	9666	CA	PRO	F	104	75.515	74.678	73.208	1.00	33.42	F
ATOM	9667	CB	PRO	F	104	74.901	75.906	73.852	1.00	31.07	F
ATOM	9668	CG	PRO	F	104	74.608	76.764	72.657	1.00	26.97	F
ATOM	9669	C	PRO	F	104	74.479	73.674	72.727	1.00	32.85	F
ATOM	9670	O	PRO	F	104	73.292	73.992	72.588	1.00	33.32	F
ATOM	9671	N	VAL	F	105	74.948	72.460	72.474	1.00	27.89	F
ATOM	9672	CA	VAL	F	105	74.096	71.393	72.016	1.00	24.81	F
ATOM	9673	CB	VAL	F	105	74.327	71.054	70.530	1.00	26.67	F
ATOM	9674	CG1	VAL	F	105	73.306	70.010	70.080	1.00	23.23	F
ATOM	9675	CG2	VAL	F	105	74.201	72.288	69.686	1.00	23.33	F
ATOM	9676	C	VAL	F	105	74.435	70.168	72.820	1.00	27.07	F
ATOM	9677	O	VAL	F	105	75.618	69.850	73.017	1.00	23.26	F
ATOM	9678	N	ALA	F	106	73.397	69.492	73.301	1.00	30.65	F
ATOM	9679	CA	ALA	F	106	73.589	68.272	74.067	1.00	34.12	F
ATOM	9680	CB	ALA	F	106	73.691	68.574	75.540	1.00	33.00	F
ATOM	9681	C	ALA	F	106	72.427	67.342	73.801	1.00	37.05	F
ATOM	9682	O	ALA	F	106	71.276	67.771	73.686	1.00	39.66	F
ATOM	9683	N	LEU	F	107	72.760	66.066	73.671	1.00	38.83	F
ATOM	9684	CA	LEU	F	107	71.791	65.014	73.432	1.00	39.37	F
ATOM	9685	CB	LEU	F	107	72.371	63.985	72.461	1.00	37.38	F
ATOM	9686	CG	LEU	F	107	71.960	64.063	70.985	1.00	38.75	F
ATOM	9687	CD1	LEU	F	107	71.728	65.491	70.561	1.00	30.59	F
ATOM	9688	CD2	LEU	F	107	73.019	63.391	70.137	1.00	29.39	F
ATOM	9689	C	LEU	F	107	71.500	64.343	74.757	1.00	40.34	F
ATOM	9690	O	LEU	F	107	72.417	63.984	75.494	1.00	41.60	F
ATOM	9691	N	TYR	F	108	70.221	64.215	75.077	1.00	42.92	F
ATOM	9692	CA	TYR	F	108	69.791	63.538	76.300	1.00	42.53	F
ATOM	9693	CB	TYR	F	108	68.891	64.447	77.138	1.00	43.02	F
ATOM	9694	CG	TYR	F	108	69.685	65.432	77.945	1.00	48.12	F
ATOM	9695	CD1	TYR	F	108	69.942	66.712	77.465	1.00	57.28	F

ATOM	9696	CE1	TYR	F	108	70.759	67.597	78.171	1.00	61.95	F
ATOM	9697	CD2	TYR	F	108	70.259	65.054	79.155	1.00	48.47	F
ATOM	9698	CE2	TYR	F	108	71.078	65.920	79.869	1.00	56.19	F
ATOM	9699	CZ	TYR	F	108	71.328	67.194	79.376	1.00	62.65	F
ATOM	9700	OH	TYR	F	108	72.141	68.062	80.085	1.00	63.58	F
ATOM	9701	C	TYR	F	108	69.042	62.298	75.831	1.00	39.12	F
ATOM	9702	O	TYR	F	108	67.911	62.382	75.348	1.00	37.20	F
ATOM	9703	N	LEU	F	109	69.702	61.153	75.955	1.00	39.45	F
ATOM	9704	CA	LEU	F	109	69.137	59.895	75.481	1.00	44.77	F
ATOM	9705	CB	LEU	F	109	70.091	59.271	74.454	1.00	40.80	F
ATOM	9706	CG	LEU	F	109	70.606	60.235	73.384	1.00	38.05	F
ATOM	9707	CD1	LEU	F	109	71.605	59.523	72.490	1.00	30.66	F
ATOM	9708	CD2	LEU	F	109	69.442	60.783	72.588	1.00	22.38	F
ATOM	9709	C	LEU	F	109	68.838	58.873	76.568	1.00	44.26	F
ATOM	9710	O	LEU	F	109	69.709	58.557	77.373	1.00	42.59	F
ATOM	9711	N	THR	F	110	67.606	58.360	76.570	1.00	42.62	F
ATOM	9712	CA	THR	F	110	67.172	57.355	77.536	1.00	40.28	F
ATOM	9713	CB	THR	F	110	65.941	57.822	78.327	1.00	43.16	F
ATOM	9714	OG1	THR	F	110	66.225	59.079	78.941	1.00	53.87	F
ATOM	9715	CG2	THR	F	110	65.595	56.818	79.420	1.00	42.20	F
ATOM	9716	C	THR	F	110	66.814	56.053	76.838	1.00	37.78	F
ATOM	9717	O	THR	F	110	65.927	56.012	75.967	1.00	36.61	F
ATOM	9718	N	PRO	F	111	67.486	54.961	77.224	1.00	37.07	F
ATOM	9719	CD	PRO	F	111	68.527	54.863	78.257	1.00	39.10	F
ATOM	9720	CA	PRO	F	111	67.231	53.650	76.623	1.00	39.91	F
ATOM	9721	CB	PRO	F	111	68.226	52.729	77.340	1.00	41.55	F
ATOM	9722	CG	PRO	F	111	69.312	53.653	77.783	1.00	42.98	F
ATOM	9723	C	PRO	F	111	65.802	53.210	76.846	1.00	39.29	F
ATOM	9724	O	PRO	F	111	65.187	53.556	77.856	1.00	38.74	F
ATOM	9725	N	VAL	F	112	65.278	52.452	75.892	1.00	41.99	F
ATOM	9726	CA	VAL	F	112	63.921	51.935	75.993	1.00	47.06	F
ATOM	9727	CB	VAL	F	112	63.277	51.733	74.606	1.00	47.21	F
ATOM	9728	CG1	VAL	F	112	63.057	53.085	73.940	1.00	46.45	F
ATOM	9729	CG2	VAL	F	112	64.164	50.843	73.744	1.00	39.90	F
ATOM	9730	C	VAL	F	112	63.991	50.599	76.708	1.00	51.26	F
ATOM	9731	O	VAL	F	112	65.035	49.937	76.703	1.00	53.23	F
ATOM	9732	N	SER	F	113	62.886	50.209	77.333	1.00	54.68	F
ATOM	9733	CA	SER	F	113	62.835	48.943	78.063	1.00	56.84	F
ATOM	9734	CB	SER	F	113	61.413	48.675	78.549	1.00	57.14	F
ATOM	9735	OG	SER	F	113	60.538	48.517	77.450	1.00	60.02	F
ATOM	9736	C	SER	F	113	63.298	47.770	77.206	1.00	55.68	F
ATOM	9737	O	SER	F	113	63.836	46.791	77.727	1.00	56.92	F
ATOM	9738	N	SER	F	114	63.094	47.877	75.895	1.00	51.06	F
ATOM	9739	CA	SER	F	114	63.473	46.811	74.989	1.00	49.53	F
ATOM	9740	CB	SER	F	114	62.565	46.839	73.755	1.00	51.34	F
ATOM	9741	OG	SER	F	114	62.755	48.006	72.986	1.00	49.27	F
ATOM	9742	C	SER	F	114	64.939	46.839	74.568	1.00	49.63	F
ATOM	9743	O	SER	F	114	65.406	45.952	73.857	1.00	48.92	F
ATOM	9744	N	ALA	F	115	65.672	47.844	75.019	1.00	52.14	F
ATOM	9745	CA	ALA	F	115	67.080	47.962	74.666	1.00	55.33	F
ATOM	9746	CB	ALA	F	115	67.670	49.200	75.327	1.00	56.97	F
ATOM	9747	C	ALA	F	115	67.889	46.716	75.055	1.00	56.95	F
ATOM	9748	O	ALA	F	115	67.909	46.316	76.228	1.00	52.50	F
ATOM	9749	N	GLY	F	116	68.572	46.127	74.065	1.00	59.50	F
ATOM	9750	CA	GLY	F	116	69.371	44.928	74.288	1.00	58.50	F
ATOM	9751	C	GLY	F	116	70.450	45.021	75.356	1.00	56.37	F
ATOM	9752	O	GLY	F	116	70.185	45.288	76.531	1.00	56.03	F
ATOM	9753	N	GLY	F	117	71.678	44.753	74.943	1.00	53.11	F

ATOM	9754	CA	GLY	F	117	72.810	44.835	75.847	1.00	50.41	F
ATOM	9755	C	GLY	F	117	73.614	45.994	75.296	1.00	45.89	F
ATOM	9756	O	GLY	F	117	73.749	47.032	75.948	1.00	43.27	F
ATOM	9757	N	VAL	F	118	74.131	45.808	74.081	1.00	40.98	F
ATOM	9758	CA	VAL	F	118	74.881	46.839	73.374	1.00	36.93	F
ATOM	9759	CB	VAL	F	118	75.859	46.220	72.392	1.00	33.65	F
ATOM	9760	CG1	VAL	F	118	76.357	47.275	71.418	1.00	28.62	F
ATOM	9761	CG2	VAL	F	118	77.010	45.611	73.151	1.00	31.70	F
ATOM	9762	C	VAL	F	118	73.897	47.686	72.577	1.00	33.39	F
ATOM	9763	O	VAL	F	118	73.534	47.313	71.484	1.00	37.61	F
ATOM	9764	N	ALA	F	119	73.463	48.816	73.119	1.00	30.58	F
ATOM	9765	CA	ALA	F	119	72.511	49.666	72.408	1.00	31.92	F
ATOM	9766	CB	ALA	F	119	71.679	50.447	73.400	1.00	23.12	F
ATOM	9767	C	ALA	F	119	73.155	50.630	71.399	1.00	35.08	F
ATOM	9768	O	ALA	F	119	72.446	51.265	70.620	1.00	33.47	F
ATOM	9769	N	ILE	F	120	74.484	50.754	71.443	1.00	34.53	F
ATOM	9770	CA	ILE	F	120	75.238	51.615	70.536	1.00	33.84	F
ATOM	9771	CB	ILE	F	120	75.463	53.008	71.138	1.00	37.22	F
ATOM	9772	CG2	ILE	F	120	76.402	53.816	70.251	1.00	27.71	F
ATOM	9773	CG1	ILE	F	120	74.131	53.731	71.295	1.00	36.35	F
ATOM	9774	CD1	ILE	F	120	74.252	55.074	71.959	1.00	36.43	F
ATOM	9775	C	ILE	F	120	76.615	51.001	70.262	1.00	37.04	F
ATOM	9776	O	ILE	F	120	77.420	50.838	71.186	1.00	39.36	F
ATOM	9777	N	LYS	F	121	76.894	50.663	69.005	1.00	30.25	F
ATOM	9778	CA	LYS	F	121	78.183	50.070	68.682	1.00	33.67	F
ATOM	9779	CB	LYS	F	121	78.131	49.337	67.327	1.00	43.20	F
ATOM	9780	CG	LYS	F	121	77.632	47.901	67.334	1.00	46.26	F
ATOM	9781	CD	LYS	F	121	76.158	47.812	67.704	1.00	58.27	F
ATOM	9782	CE	LYS	F	121	75.590	46.456	67.325	1.00	61.66	F
ATOM	9783	NZ	LYS	F	121	75.770	46.200	65.858	1.00	65.25	F
ATOM	9784	C	LYS	F	121	79.368	51.042	68.652	1.00	33.63	F
ATOM	9785	O	LYS	F	121	79.276	52.202	68.235	1.00	32.49	F
ATOM	9786	N	ALA	F	122	80.500	50.533	69.104	1.00	33.94	F
ATOM	9787	CA	ALA	F	122	81.725	51.297	69.087	1.00	35.61	F
ATOM	9788	CB	ALA	F	122	82.864	50.477	69.707	1.00	21.51	F
ATOM	9789	C	ALA	F	122	82.021	51.578	67.607	1.00	37.44	F
ATOM	9790	O	ALA	F	122	82.010	50.662	66.777	1.00	36.51	F
ATOM	9791	N	GLY	F	123	82.267	52.845	67.289	1.00	36.12	F
ATOM	9792	CA	GLY	F	123	82.588	53.227	65.930	1.00	33.99	F
ATOM	9793	C	GLY	F	123	81.409	53.567	65.040	1.00	33.57	F
ATOM	9794	O	GLY	F	123	81.597	53.902	63.870	1.00	36.03	F
ATOM	9795	N	SER	F	124	80.199	53.511	65.579	1.00	32.27	F
ATOM	9796	CA	SER	F	124	79.018	53.784	64.773	1.00	32.48	F
ATOM	9797	CB	SER	F	124	77.847	52.916	65.266	1.00	30.72	F
ATOM	9798	OG	SER	F	124	77.572	53.107	66.644	1.00	24.59	F
ATOM	9799	C	SER	F	124	78.563	55.237	64.656	1.00	31.36	F
ATOM	9800	O	SER	F	124	78.827	56.075	65.510	1.00	31.18	F
ATOM	9801	N	LEU	F	125	77.867	55.526	63.573	1.00	31.47	F
ATOM	9802	CA	LEU	F	125	77.359	56.864	63.362	1.00	32.12	F
ATOM	9803	CB	LEU	F	125	76.857	57.076	61.920	1.00	29.14	F
ATOM	9804	CG	LEU	F	125	76.101	58.400	61.753	1.00	28.02	F
ATOM	9805	CD1	LEU	F	125	77.043	59.561	62.003	1.00	21.81	F
ATOM	9806	CD2	LEU	F	125	75.503	58.485	60.376	1.00	29.12	F
ATOM	9807	C	LEU	F	125	76.206	56.913	64.311	1.00	29.25	F
ATOM	9808	O	LEU	F	125	75.243	56.172	64.181	1.00	32.46	F
ATOM	9809	N	ILE	F	126	76.315	57.796	65.273	1.00	30.20	F
ATOM	9810	CA	ILE	F	126	75.297	57.936	66.288	1.00	31.31	F
ATOM	9811	CB	ILE	F	126	75.989	58.115	67.659	1.00	33.57	F

ATOM	9812	CG2	ILE	F	126	75.606	59.420	68.321	1.00	23.95	F
ATOM	9813	CG1	ILE	F	126	75.715	56.890	68.497	1.00	31.43	F
ATOM	9814	CD1	ILE	F	126	76.466	56.904	69.775	1.00	50.99	F
ATOM	9815	C	ILE	F	126	74.336	59.064	65.988	1.00	30.25	F
ATOM	9816	O	ILE	F	126	73.171	58.965	66.325	1.00	30.83	F
ATOM	9817	N	ALA	F	127	74.821	60.127	65.346	1.00	30.48	F
ATOM	9818	CA	ALA	F	127	73.970	61.273	65.013	1.00	27.10	F
ATOM	9819	CB	ALA	F	127	73.629	62.044	66.278	1.00	23.98	F
ATOM	9820	C	ALA	F	127	74.605	62.227	64.009	1.00	24.00	F
ATOM	9821	O	ALA	F	127	75.828	62.252	63.849	1.00	27.01	F
ATOM	9822	N	VAL	F	128	73.763	62.994	63.329	1.00	17.44	F
ATOM	9823	CA	VAL	F	128	74.226	63.992	62.386	1.00	19.27	F
ATOM	9824	CB	VAL	F	128	73.844	63.658	60.919	1.00	17.28	F
ATOM	9825	CG1	VAL	F	128	74.176	64.864	60.015	1.00	12.32	F
ATOM	9826	CG2	VAL	F	128	74.623	62.440	60.426	1.00	15.75	F
ATOM	9827	C	VAL	F	128	73.554	65.308	62.792	1.00	24.73	F
ATOM	9828	O	VAL	F	128	72.327	65.390	62.827	1.00	28.45	F
ATOM	9829	N	LEU	F	129	74.354	66.326	63.110	1.00	23.96	F
ATOM	9830	CA	LEU	F	129	73.816	67.618	63.524	1.00	27.64	F
ATOM	9831	CB	LEU	F	129	74.341	67.996	64.907	1.00	27.35	F
ATOM	9832	CG	LEU	F	129	74.006	67.025	66.042	1.00	38.04	F
ATOM	9833	CD1	LEU	F	129	74.583	67.566	67.325	1.00	29.73	F
ATOM	9834	CD2	LEU	F	129	72.488	66.849	66.173	1.00	35.53	F
ATOM	9835	C	LEU	F	129	74.154	68.731	62.539	1.00	30.45	F
ATOM	9836	O	LEU	F	129	75.322	68.964	62.208	1.00	31.30	F
ATOM	9837	N	ILE	F	130	73.123	69.427	62.077	1.00	26.89	F
ATOM	9838	CA	ILE	F	130	73.334	70.495	61.129	1.00	26.66	F
ATOM	9839	CB	ILE	F	130	72.356	70.406	59.945	1.00	27.82	F
ATOM	9840	CG2	ILE	F	130	72.526	71.611	59.037	1.00	20.45	F
ATOM	9841	CG1	ILE	F	130	72.625	69.124	59.151	1.00	19.70	F
ATOM	9842	CD1	ILE	F	130	71.639	68.910	58.038	1.00	29.87	F
ATOM	9843	C	ILE	F	130	73.224	71.867	61.749	1.00	30.37	F
ATOM	9844	O	ILE	F	130	72.161	72.285	62.226	1.00	32.61	F
ATOM	9845	N	LEU	F	131	74.359	72.559	61.726	1.00	33.24	F
ATOM	9846	CA	LEU	F	131	74.496	73.902	62.247	1.00	30.22	F
ATOM	9847	CB	LEU	F	131	75.889	74.067	62.826	1.00	26.36	F
ATOM	9848	CG	LEU	F	131	76.191	75.421	63.450	1.00	35.42	F
ATOM	9849	CD1	LEU	F	131	77.402	75.295	64.355	1.00	33.85	F
ATOM	9850	CD2	LEU	F	131	76.420	76.458	62.362	1.00	33.68	F
ATOM	9851	C	LEU	F	131	74.286	74.850	61.078	1.00	32.06	F
ATOM	9852	O	LEU	F	131	74.976	74.751	60.073	1.00	35.21	F
ATOM	9853	N	ARG	F	132	73.328	75.762	61.211	1.00	34.13	F
ATOM	9854	CA	ARG	F	132	73.025	76.729	60.158	1.00	33.73	F
ATOM	9855	CB	ARG	F	132	71.550	76.665	59.800	1.00	32.57	F
ATOM	9856	CG	ARG	F	132	71.118	77.651	58.771	1.00	26.80	F
ATOM	9857	CD	ARG	F	132	69.719	77.317	58.374	1.00	32.86	F
ATOM	9858	NE	ARG	F	132	69.362	77.867	57.073	1.00	50.47	F
ATOM	9859	CZ	ARG	F	132	68.236	77.567	56.427	1.00	56.27	F
ATOM	9860	NH1	ARG	F	132	67.362	76.721	56.967	1.00	56.77	F
ATOM	9861	NH2	ARG	F	132	67.983	78.105	55.237	1.00	58.27	F
ATOM	9862	C	ARG	F	132	73.377	78.131	60.619	1.00	34.90	F
ATOM	9863	O	ARG	F	132	72.833	78.621	61.611	1.00	36.41	F
ATOM	9864	N	GLN	F	133	74.271	78.775	59.874	1.00	36.15	F
ATOM	9865	CA	GLN	F	133	74.749	80.110	60.210	1.00	33.72	F
ATOM	9866	CB	GLN	F	133	76.252	80.060	60.467	1.00	34.30	F
ATOM	9867	CG	GLN	F	133	76.911	81.414	60.670	1.00	39.57	F
ATOM	9868	CD	GLN	F	133	77.509	81.988	59.399	1.00	38.53	F
ATOM	9869	OE1	GLN	F	133	78.316	81.349	58.733	1.00	43.80	F

ATOM	9870	NE2	GLN	F	133	77.123	83.206	59.066	1.00	39.22	F
ATOM	9871	C	GLN	F	133	74.460	81.159	59.159	1.00	33.35	F
ATOM	9872	O	GLN	F	133	74.773	80.983	57.984	1.00	34.90	F
ATOM	9873	N	THR	F	134	73.852	82.251	59.608	1.00	33.56	F
ATOM	9874	CA	THR	F	134	73.514	83.399	58.769	1.00	32.76	F
ATOM	9875	CB	THR	F	134	72.016	83.571	58.656	1.00	29.22	F
ATOM	9876	OG1	THR	F	134	71.453	83.391	59.959	1.00	42.08	F
ATOM	9877	CG2	THR	F	134	71.421	82.570	57.689	1.00	19.49	F
ATOM	9878	C	THR	F	134	74.074	84.635	59.482	1.00	36.34	F
ATOM	9879	O	THR	F	134	74.866	84.516	60.424	1.00	35.33	F
ATOM	9880	N	ASN	F	135	73.667	85.824	59.048	1.00	38.89	F
ATOM	9881	CA	ASN	F	135	74.168	87.037	59.687	1.00	42.65	F
ATOM	9882	CB	ASN	F	135	75.605	87.312	59.242	1.00	41.20	F
ATOM	9883	CG	ASN	F	135	75.730	87.408	57.743	1.00	42.29	F
ATOM	9884	OD1	ASN	F	135	74.871	87.979	57.077	1.00	40.78	F
ATOM	9885	ND2	ASN	F	135	76.802	86.851	57.199	1.00	42.15	F
ATOM	9886	C	ASN	F	135	73.311	88.246	59.379	1.00	44.15	F
ATOM	9887	O	ASN	F	135	72.388	88.187	58.558	1.00	44.56	F
ATOM	9888	N	ASN	F	136	73.620	89.345	60.052	1.00	45.73	F
ATOM	9889	CA	ASN	F	136	72.896	90.592	59.830	1.00	50.51	F
ATOM	9890	CB	ASN	F	136	72.740	91.359	61.133	1.00	47.85	F
ATOM	9891	CG	ASN	F	136	74.069	91.673	61.774	1.00	51.73	F
ATOM	9892	OD1	ASN	F	136	74.127	92.238	62.866	1.00	54.65	F
ATOM	9893	ND2	ASN	F	136	75.151	91.304	61.101	1.00	54.57	F
ATOM	9894	C	ASN	F	136	73.691	91.443	58.860	1.00	52.19	F
ATOM	9895	O	ASN	F	136	73.720	92.663	58.991	1.00	51.78	F
ATOM	9896	N	TYR	F	137	74.355	90.793	57.905	1.00	54.92	F
ATOM	9897	CA	TYR	F	137	75.158	91.514	56.932	1.00	55.63	F
ATOM	9898	CB	TYR	F	137	76.646	91.236	57.135	1.00	62.79	F
ATOM	9899	CG	TYR	F	137	77.517	92.035	56.191	1.00	70.51	F
ATOM	9900	CD1	TYR	F	137	77.430	93.427	56.139	1.00	69.43	F
ATOM	9901	CE1	TYR	F	137	78.217	94.165	55.261	1.00	73.84	F
ATOM	9902	CD2	TYR	F	137	78.420	91.399	55.336	1.00	75.66	F
ATOM	9903	CE2	TYR	F	137	79.216	92.132	54.454	1.00	75.09	F
ATOM	9904	CZ	TYR	F	137	79.106	93.510	54.422	1.00	74.61	F
ATOM	9905	OH	TYR	F	137	79.872	94.230	53.540	1.00	76.08	F
ATOM	9906	C	TYR	F	137	74.798	91.243	55.488	1.00	52.14	F
ATOM	9907	O	TYR	F	137	74.782	92.163	54.688	1.00	55.38	F
ATOM	9908	N	ASN	F	138	74.517	89.995	55.144	1.00	49.22	F
ATOM	9909	CA	ASN	F	138	74.153	89.673	53.765	1.00	50.77	F
ATOM	9910	CB	ASN	F	138	75.397	89.551	52.904	1.00	51.66	F
ATOM	9911	CG	ASN	F	138	76.351	88.509	53.415	1.00	51.29	F
ATOM	9912	OD1	ASN	F	138	77.434	88.350	52.883	1.00	55.19	F
ATOM	9913	ND2	ASN	F	138	75.952	87.788	54.447	1.00	52.57	F
ATOM	9914	C	ASN	F	138	73.338	88.399	53.639	1.00	53.71	F
ATOM	9915	O	ASN	F	138	72.766	87.923	54.622	1.00	56.23	F
ATOM	9916	N	SER	F	139	73.290	87.834	52.435	1.00	53.66	F
ATOM	9917	CA	SER	F	139	72.508	86.616	52.221	1.00	53.60	F
ATOM	9918	CB	SER	F	139	71.968	86.580	50.785	1.00	52.64	F
ATOM	9919	OG	SER	F	139	73.023	86.535	49.840	1.00	62.57	F
ATOM	9920	C	SER	F	139	73.246	85.309	52.527	1.00	49.31	F
ATOM	9921	O	SER	F	139	72.856	84.247	52.034	1.00	50.06	F
ATOM	9922	N	ASP	F	140	74.299	85.382	53.338	1.00	46.87	F
ATOM	9923	CA	ASP	F	140	75.066	84.189	53.705	1.00	45.08	F
ATOM	9924	CB	ASP	F	140	76.330	84.580	54.492	1.00	42.13	F
ATOM	9925	CG	ASP	F	140	77.489	84.998	53.582	1.00	45.18	F
ATOM	9926	OD1	ASP	F	140	78.559	85.417	54.095	1.00	33.58	F
ATOM	9927	OD2	ASP	F	140	77.335	84.903	52.343	1.00	41.21	F

ATOM	9928	C	ASP	F	140	74.227	83.195	54.528	1.00	46.20	F
ATOM	9929	O	ASP	F	140	73.732	83.515	55.613	1.00	45.17	F
ATOM	9930	N	ASP	F	141	74.069	81.988	53.995	1.00	46.06	F
ATOM	9931	CA	ASP	F	141	73.314	80.928	54.661	1.00	42.86	F
ATOM	9932	CB	ASP	F	141	71.950	80.779	53.998	1.00	48.22	F
ATOM	9933	CG	ASP	F	141	70.969	79.980	54.837	1.00	52.47	F
ATOM	9934	OD1	ASP	F	141	71.400	79.201	55.713	1.00	53.31	F
ATOM	9935	OD2	ASP	F	141	69.751	80.122	54.601	1.00	58.02	F
ATOM	9936	C	ASP	F	141	74.131	79.645	54.463	1.00	37.88	F
ATOM	9937	O	ASP	F	141	73.937	78.928	53.478	1.00	35.24	F
ATOM	9938	N	PHE	F	142	75.037	79.364	55.392	1.00	30.23	F
ATOM	9939	CA	PHE	F	142	75.907	78.196	55.285	1.00	32.72	F
ATOM	9940	CB	PHE	F	142	77.370	78.611	55.506	1.00	31.86	F
ATOM	9941	CG	PHE	F	142	77.855	79.662	54.551	1.00	37.68	F
ATOM	9942	CD1	PHE	F	142	78.501	80.808	55.022	1.00	40.81	F
ATOM	9943	CD2	PHE	F	142	77.697	79.499	53.174	1.00	32.10	F
ATOM	9944	CE1	PHE	F	142	78.993	81.778	54.135	1.00	32.79	F
ATOM	9945	CE2	PHE	F	142	78.181	80.454	52.285	1.00	29.13	F
ATOM	9946	CZ	PHE	F	142	78.833	81.600	52.772	1.00	30.65	F
ATOM	9947	C	PHE	F	142	75.556	77.094	56.278	1.00	35.05	F
ATOM	9948	O	PHE	F	142	75.010	77.351	57.361	1.00	36.52	F
ATOM	9949	N	GLN	F	143	75.892	75.861	55.918	1.00	31.31	F
ATOM	9950	CA	GLN	F	143	75.604	74.735	56.782	1.00	30.55	F
ATOM	9951	CB	GLN	F	143	74.693	73.737	56.090	1.00	30.44	F
ATOM	9952	CG	GLN	F	143	73.298	74.216	55.814	1.00	37.93	F
ATOM	9953	CD	GLN	F	143	72.396	73.065	55.477	1.00	46.00	F
ATOM	9954	OE1	GLN	F	143	72.796	72.153	54.753	1.00	46.23	F
ATOM	9955	NE2	GLN	F	143	71.170	73.088	56.004	1.00	51.53	F
ATOM	9956	C	GLN	F	143	76.860	74.020	57.200	1.00	32.27	F
ATOM	9957	O	GLN	F	143	77.711	73.706	56.375	1.00	34.20	F
ATOM	9958	N	PHE	F	144	76.967	73.774	58.500	1.00	33.26	F
ATOM	9959	CA	PHE	F	144	78.107	73.085	59.069	1.00	31.18	F
ATOM	9960	CB	PHE	F	144	78.715	73.904	60.204	1.00	27.45	F
ATOM	9961	CG	PHE	F	144	79.397	75.159	59.735	1.00	32.07	F
ATOM	9962	CD1	PHE	F	144	78.663	76.214	59.188	1.00	30.50	F
ATOM	9963	CD2	PHE	F	144	80.784	75.301	59.846	1.00	33.59	F
ATOM	9964	CE1	PHE	F	144	79.303	77.397	58.763	1.00	21.24	F
ATOM	9965	CE2	PHE	F	144	81.429	76.474	59.427	1.00	23.71	F
ATOM	9966	CZ	PHE	F	144	80.680	77.525	58.886	1.00	18.32	F
ATOM	9967	C	PHE	F	144	77.553	71.775	59.573	1.00	32.17	F
ATOM	9968	O	PHE	F	144	76.801	71.736	60.554	1.00	32.99	F
ATOM	9969	N	VAL	F	145	77.931	70.700	58.889	1.00	26.72	F
ATOM	9970	CA	VAL	F	145	77.446	69.386	59.233	1.00	24.09	F
ATOM	9971	CB	VAL	F	145	77.189	68.576	57.958	1.00	24.74	F
ATOM	9972	CG1	VAL	F	145	76.684	67.209	58.317	1.00	19.40	F
ATOM	9973	CG2	VAL	F	145	76.163	69.306	57.068	1.00	20.99	F
ATOM	9974	C	VAL	F	145	78.367	68.610	60.145	1.00	26.74	F
ATOM	9975	O	VAL	F	145	79.531	68.387	59.823	1.00	33.30	F
ATOM	9976	N	TRP	F	146	77.842	68.184	61.290	1.00	27.93	F
ATOM	9977	CA	TRP	F	146	78.639	67.420	62.247	1.00	25.53	F
ATOM	9978	CB	TRP	F	146	78.546	68.061	63.638	1.00	22.97	F
ATOM	9979	CG	TRP	F	146	78.796	69.540	63.609	1.00	23.12	F
ATOM	9980	CD2	TRP	F	146	80.070	70.203	63.583	1.00	19.97	F
ATOM	9981	CE2	TRP	F	146	79.817	71.588	63.458	1.00	22.02	F
ATOM	9982	CE3	TRP	F	146	81.400	69.763	63.648	1.00	18.12	F
ATOM	9983	CD1	TRP	F	146	77.855	70.521	63.504	1.00	24.57	F
ATOM	9984	NE1	TRP	F	146	78.458	71.754	63.408	1.00	28.30	F
ATOM	9985	CZ2	TRP	F	146	80.840	72.536	63.403	1.00	20.45	F

ATOM	9986	CZ3	TRP	F	146	82.426	70.718	63.590	1.00	19.99	F
ATOM	9987	CH2	TRP	F	146	82.135	72.083	63.470	1.00	14.70	F
ATOM	9988	C	TRP	F	146	78.183	65.959	62.296	1.00	26.65	F
ATOM	9989	O	TRP	F	146	77.018	65.659	62.566	1.00	28.02	F
ATOM	9990	N	ASN	F	147	79.103	65.047	62.002	1.00	25.61	F
ATOM	9991	CA	ASN	F	147	78.786	63.626	62.029	1.00	25.67	F
ATOM	9992	CB	ASN	F	147	79.405	62.909	60.816	1.00	22.18	F
ATOM	9993	CG	ASN	F	147	78.962	63.518	59.490	1.00	28.38	F
ATOM	9994	OD1	ASN	F	147	77.769	63.721	59.236	1.00	25.40	F
ATOM	9995	ND2	ASN	F	147	79.924	63.805	58.636	1.00	34.60	F
ATOM	9996	C	ASN	F	147	79.329	63.070	63.337	1.00	26.95	F
ATOM	9997	O	ASN	F	147	80.537	62.950	63.522	1.00	27.80	F
ATOM	9998	N	ILE	F	148	78.421	62.750	64.252	1.00	25.76	F
ATOM	9999	CA	ILE	F	148	78.802	62.239	65.566	1.00	26.05	F
ATOM	10000	CB	ILE	F	148	77.736	62.606	66.621	1.00	25.73	F
ATOM	10001	CG2	ILE	F	148	78.359	62.575	67.999	1.00	26.85	F
ATOM	10002	CG1	ILE	F	148	77.093	63.969	66.296	1.00	30.69	F
ATOM	10003	CD1	ILE	F	148	78.011	65.175	66.263	1.00	19.85	F
ATOM	10004	C	ILE	F	148	78.995	60.726	65.632	1.00	24.06	F
ATOM	10005	O	ILE	F	148	78.043	59.979	65.486	1.00	29.63	F
ATOM	10006	N	TYR	F	149	80.219	60.273	65.854	1.00	21.38	F
ATOM	10007	CA	TYR	F	149	80.496	58.842	65.974	1.00	24.87	F
ATOM	10008	CB	TYR	F	149	81.707	58.439	65.118	1.00	21.05	F
ATOM	10009	CG	TYR	F	149	81.433	58.399	63.634	1.00	27.54	F
ATOM	10010	CD1	TYR	F	149	81.358	59.580	62.883	1.00	26.94	F
ATOM	10011	CE1	TYR	F	149	81.067	59.552	61.526	1.00	28.08	F
ATOM	10012	CD2	TYR	F	149	81.209	57.186	62.980	1.00	27.21	F
ATOM	10013	CE2	TYR	F	149	80.915	57.149	61.618	1.00	29.70	F
ATOM	10014	CZ	TYR	F	149	80.848	58.335	60.899	1.00	30.10	F
ATOM	10015	OH	TYR	F	149	80.583	58.300	59.555	1.00	31.41	F
ATOM	10016	C	TYR	F	149	80.787	58.475	67.437	1.00	28.65	F
ATOM	10017	O	TYR	F	149	81.371	59.270	68.169	1.00	36.35	F
ATOM	10018	N	ALA	F	150	80.371	57.287	67.868	1.00	27.14	F
ATOM	10019	CA	ALA	F	150	80.635	56.844	69.232	1.00	28.14	F
ATOM	10020	CB	ALA	F	150	79.493	56.053	69.749	1.00	26.19	F
ATOM	10021	C	ALA	F	150	81.892	55.988	69.211	1.00	30.78	F
ATOM	10022	O	ALA	F	150	82.010	55.088	68.392	1.00	35.39	F
ATOM	10023	N	ASN	F	151	82.822	56.256	70.119	1.00	28.96	F
ATOM	10024	CA	ASN	F	151	84.077	55.529	70.138	1.00	29.61	F
ATOM	10025	CB	ASN	F	151	85.160	56.335	70.856	1.00	34.70	F
ATOM	10026	CG	ASN	F	151	85.704	57.468	70.020	1.00	36.27	F
ATOM	10027	OD1	ASN	F	151	86.182	57.260	68.907	1.00	36.03	F
ATOM	10028	ND2	ASN	F	151	85.644	58.677	70.559	1.00	37.07	F
ATOM	10029	C	ASN	F	151	83.981	54.199	70.806	1.00	32.38	F
ATOM	10030	O	ASN	F	151	84.834	53.334	70.602	1.00	37.71	F
ATOM	10031	N	ASN	F	152	82.938	54.028	71.604	1.00	31.65	F
ATOM	10032	CA	ASN	F	152	82.781	52.801	72.361	1.00	31.16	F
ATOM	10033	CB	ASN	F	152	83.272	53.052	73.772	1.00	32.07	F
ATOM	10034	CG	ASN	F	152	82.408	54.066	74.500	1.00	34.33	F
ATOM	10035	OD1	ASN	F	152	82.485	55.269	74.248	1.00	39.93	F
ATOM	10036	ND2	ASN	F	152	81.560	53.580	75.389	1.00	30.91	F
ATOM	10037	C	ASN	F	152	81.342	52.310	72.439	1.00	31.31	F
ATOM	10038	O	ASN	F	152	80.403	53.050	72.107	1.00	26.34	F
ATOM	10039	N	ASP	F	153	81.178	51.069	72.911	1.00	30.50	F
ATOM	10040	CA	ASP	F	153	79.844	50.498	73.063	1.00	32.96	F
ATOM	10041	CB	ASP	F	153	79.864	48.981	73.321	1.00	33.05	F
ATOM	10042	CG	ASP	F	153	80.467	48.168	72.188	1.00	40.75	F
ATOM	10043	OD1	ASP	F	153	80.472	48.603	71.012	1.00	44.27	F

ATOM	10044	OD2	ASP	F	153	80.919	47.048	72.494	1.00	39.01	F
ATOM	10045	C	ASP	F	153	79.178	51.103	74.285	1.00	33.56	F
ATOM	10046	O	ASP	F	153	79.824	51.331	75.300	1.00	37.56	F
ATOM	10047	N	VAL	F	154	77.888	51.374	74.172	1.00	34.54	F
ATOM	10048	CA	VAL	F	154	77.096	51.843	75.295	1.00	33.09	F
ATOM	10049	CB	VAL	F	154	76.287	53.070	74.950	1.00	35.99	F
ATOM	10050	CG1	VAL	F	154	75.337	53.410	76.112	1.00	30.67	F
ATOM	10051	CG2	VAL	F	154	77.210	54.202	74.658	1.00	40.35	F
ATOM	10052	C	VAL	F	154	76.115	50.694	75.611	1.00	34.56	F
ATOM	10053	O	VAL	F	154	75.127	50.472	74.893	1.00	30.43	F
ATOM	10054	N	VAL	F	155	76.414	49.953	76.670	1.00	37.88	F
ATOM	10055	CA	VAL	F	155	75.582	48.829	77.101	1.00	37.52	F
ATOM	10056	CB	VAL	F	155	76.414	47.744	77.855	1.00	36.79	F
ATOM	10057	CG1	VAL	F	155	75.493	46.813	78.599	1.00	40.41	F
ATOM	10058	CG2	VAL	F	155	77.264	46.944	76.875	1.00	42.20	F
ATOM	10059	C	VAL	F	155	74.466	49.267	78.035	1.00	35.62	F
ATOM	10060	O	VAL	F	155	74.665	50.107	78.911	1.00	34.65	F
ATOM	10061	N	VAL	F	156	73.286	48.697	77.821	1.00	37.60	F
ATOM	10062	CA	VAL	F	156	72.124	48.944	78.674	1.00	40.02	F
ATOM	10063	CB	VAL	F	156	70.900	49.343	77.866	1.00	43.02	F
ATOM	10064	CG1	VAL	F	156	69.648	49.238	78.742	1.00	37.74	F
ATOM	10065	CG2	VAL	F	156	71.087	50.763	77.328	1.00	43.57	F
ATOM	10066	C	VAL	F	156	71.837	47.599	79.330	1.00	40.40	F
ATOM	10067	O	VAL	F	156	71.345	46.684	78.675	1.00	42.72	F
ATOM	10068	N	PRO	F	157	72.141	47.459	80.629	1.00	39.83	F
ATOM	10069	CD	PRO	F	157	72.592	48.518	81.542	1.00	40.86	F
ATOM	10070	CA	PRO	F	157	71.923	46.208	81.368	1.00	38.96	F
ATOM	10071	CB	PRO	F	157	72.276	46.587	82.800	1.00	38.34	F
ATOM	10072	CG	PRO	F	157	73.260	47.722	82.620	1.00	40.05	F
ATOM	10073	C	PRO	F	157	70.507	45.661	81.258	1.00	35.56	F
ATOM	10074	O	PRO	F	157	69.529	46.425	81.222	1.00	32.77	F
ATOM	10075	N	THR	F	158	70.400	44.339	81.176	1.00	32.84	F
ATOM	10076	CA	THR	F	158	69.087	43.717	81.102	1.00	38.19	F
ATOM	10077	CB	THR	F	158	69.182	42.273	80.655	1.00	40.68	F
ATOM	10078	OG1	THR	F	158	67.905	41.659	80.827	1.00	49.84	F
ATOM	10079	CG2	THR	F	158	70.185	41.530	81.481	1.00	46.45	F
ATOM	10080	C	THR	F	158	68.416	43.761	82.482	1.00	37.81	F
ATOM	10081	O	THR	F	158	69.064	43.479	83.501	1.00	38.86	F
ATOM	10082	N	GLY	F	159	67.132	44.132	82.509	1.00	34.68	F
ATOM	10083	CA	GLY	F	159	66.399	44.227	83.764	1.00	35.48	F
ATOM	10084	C	GLY	F	159	65.735	42.938	84.244	1.00	39.73	F
ATOM	10085	O	GLY	F	159	65.850	41.877	83.604	1.00	37.58	F
ATOM	10086	N	GLY	F	160	65.053	43.011	85.385	1.00	35.22	F
ATOM	10087	CA	GLY	F	160	64.389	41.824	85.886	1.00	34.97	F
ATOM	10088	C	GLY	F	160	63.024	41.767	85.242	1.00	36.62	F
ATOM	10089	O	GLY	F	160	62.584	42.781	84.690	1.00	36.99	F
ATOM	10090	N	CYS	F	161	62.348	40.620	85.308	1.00	35.39	F
ATOM	10091	CA	CYS	F	161	61.021	40.506	84.707	1.00	38.65	F
ATOM	10092	C	CYS	F	161	59.879	40.968	85.626	1.00	40.33	F
ATOM	10093	O	CYS	F	161	60.099	41.268	86.804	1.00	43.24	F
ATOM	10094	CB	CYS	F	161	60.802	39.081	84.270	1.00	37.85	F
ATOM	10095	SG	CYS	F	161	62.198	38.457	83.291	1.00	45.26	F
ATOM	10096	N	ASP	F	162	58.667	41.071	85.087	1.00	38.46	F
ATOM	10097	CA	ASP	F	162	57.554	41.496	85.923	1.00	45.24	F
ATOM	10098	CB	ASP	F	162	56.786	42.661	85.301	1.00	52.78	F
ATOM	10099	CG	ASP	F	162	55.811	43.308	86.291	1.00	66.12	F
ATOM	10100	OD1	ASP	F	162	56.221	43.605	87.439	1.00	66.72	F
ATOM	10101	OD2	ASP	F	162	54.634	43.529	85.927	1.00	73.89	F

ATOM	10102	C	ASP	F	162	56.618	40.335	86.154	1.00	48.44	F
ATOM	10103	O	ASP	F	162	56.210	39.646	85.218	1.00	49.57	F
ATOM	10104	N	VAL	F	163	56.290	40.112	87.416	1.00	49.87	F
ATOM	10105	CA	VAL	F	163	55.424	39.017	87.780	1.00	56.69	F
ATOM	10106	CB	VAL	F	163	55.968	38.299	89.017	1.00	54.80	F
ATOM	10107	CG1	VAL	F	163	55.043	37.176	89.421	1.00	55.56	F
ATOM	10108	CG2	VAL	F	163	57.365	37.754	88.708	1.00	52.68	F
ATOM	10109	C	VAL	F	163	54.018	39.529	88.017	1.00	65.02	F
ATOM	10110	O	VAL	F	163	53.613	39.815	89.137	1.00	67.86	F
ATOM	10111	N	SER	F	164	53.286	39.646	86.919	1.00	74.84	F
ATOM	10112	CA	SER	F	164	51.914	40.118	86.919	1.00	82.88	F
ATOM	10113	CB	SER	F	164	51.406	40.192	85.474	1.00	86.59	F
ATOM	10114	OG	SER	F	164	52.427	40.645	84.591	1.00	83.85	F
ATOM	10115	C	SER	F	164	51.028	39.173	87.729	1.00	87.55	F
ATOM	10116	O	SER	F	164	50.770	38.036	87.311	1.00	87.89	F
ATOM	10117	N	ALA	F	165	50.572	39.651	88.886	1.00	91.49	F
ATOM	10118	CA	ALA	F	165	49.703	38.872	89.769	1.00	95.63	F
ATOM	10119	CB	ALA	F	165	50.489	38.396	90.988	1.00	95.41	F
ATOM	10120	C	ALA	F	165	48.515	39.725	90.208	1.00	97.82	F
ATOM	10121	O	ALA	F	165	48.689	40.876	90.610	1.00	101.18	F
ATOM	10122	N	ARG	F	166	47.311	39.165	90.131	1.00	98.21	F
ATOM	10123	CA	ARG	F	166	46.116	39.903	90.519	1.00	100.73	F
ATOM	10124	CB	ARG	F	166	44.878	39.052	90.244	1.00	99.07	F
ATOM	10125	CG	ARG	F	166	44.781	38.662	88.772	1.00	97.38	F
ATOM	10126	CD	ARG	F	166	43.505	37.907	88.427	1.00	96.43	F
ATOM	10127	NE	ARG	F	166	43.485	37.521	87.014	1.00	95.13	F
ATOM	10128	CZ	ARG	F	166	42.579	36.716	86.463	1.00	94.01	F
ATOM	10129	NH1	ARG	F	166	41.603	36.203	87.205	1.00	90.25	F
ATOM	10130	NH2	ARG	F	166	42.660	36.410	85.172	1.00	91.65	F
ATOM	10131	C	ARG	F	166	46.174	40.373	91.978	1.00	104.42	F
ATOM	10132	O	ARG	F	166	46.241	41.584	92.219	1.00	107.01	F
ATOM	10133	N	ASP	F	167	46.152	39.439	92.938	1.00	104.50	F
ATOM	10134	CA	ASP	F	167	46.246	39.773	94.374	1.00	104.28	F
ATOM	10135	CB	ASP	F	167	45.254	40.876	94.769	1.00	107.39	F
ATOM	10136	CG	ASP	F	167	45.459	41.367	96.210	1.00	111.31	F
ATOM	10137	OD1	ASP	F	167	44.569	42.078	96.731	1.00	113.91	F
ATOM	10138	OD2	ASP	F	167	46.508	41.044	96.820	1.00	109.69	F
ATOM	10139	C	ASP	F	167	46.033	38.585	95.311	1.00	102.78	F
ATOM	10140	O	ASP	F	167	46.268	37.437	94.937	1.00	104.79	F
ATOM	10141	N	VAL	F	168	45.593	38.891	96.533	1.00	98.33	F
ATOM	10142	CA	VAL	F	168	45.324	37.913	97.583	1.00	93.87	F
ATOM	10143	CB	VAL	F	168	45.027	38.631	98.922	1.00	94.11	F
ATOM	10144	CG1	VAL	F	168	44.007	39.734	98.698	1.00	95.13	F
ATOM	10145	CG2	VAL	F	168	44.514	37.637	99.954	1.00	93.09	F
ATOM	10146	C	VAL	F	168	44.147	37.008	97.213	1.00	88.58	F
ATOM	10147	O	VAL	F	168	42.994	37.292	97.535	1.00	88.60	F
ATOM	10148	N	THR	F	169	44.464	35.911	96.536	1.00	82.65	F
ATOM	10149	CA	THR	F	169	43.473	34.949	96.083	1.00	79.76	F
ATOM	10150	CB	THR	F	169	44.138	33.793	95.321	1.00	80.15	F
ATOM	10151	OG1	THR	F	169	44.638	34.275	94.070	1.00	81.54	F
ATOM	10152	CG2	THR	F	169	43.149	32.671	95.067	1.00	78.95	F
ATOM	10153	C	THR	F	169	42.636	34.351	97.190	1.00	78.58	F
ATOM	10154	O	THR	F	169	43.163	33.825	98.171	1.00	77.63	F
ATOM	10155	N	VAL	F	170	41.321	34.425	97.011	1.00	78.78	F
ATOM	10156	CA	VAL	F	170	40.382	33.868	97.973	1.00	79.85	F
ATOM	10157	CB	VAL	F	170	38.989	34.546	97.880	1.00	82.56	F
ATOM	10158	CG1	VAL	F	170	38.092	34.027	98.983	1.00	83.97	F
ATOM	10159	CG2	VAL	F	170	39.123	36.059	97.999	1.00	86.37	F

ATOM	10160	C	VAL	F	170	40.232	32.379	97.662	1.00	78.52	F
ATOM	10161	O	VAL	F	170	39.473	31.986	96.777	1.00	71.23	F
ATOM	10162	N	THR	F	171	40.999	31.563	98.380	1.00	82.10	F
ATOM	10163	CA	THR	F	171	40.971	30.118	98.218	1.00	84.55	F
ATOM	10164	CB	THR	F	171	42.208	29.448	98.909	1.00	82.30	F
ATOM	10165	OG1	THR	F	171	42.047	28.026	98.927	1.00	84.27	F
ATOM	10166	CG2	THR	F	171	42.363	29.922	100.329	1.00	77.80	F
ATOM	10167	C	THR	F	171	39.686	29.660	98.883	1.00	89.07	F
ATOM	10168	O	THR	F	171	39.655	28.639	99.573	1.00	93.98	F
ATOM	10169	N	LEU	F	172	38.620	30.420	98.657	1.00	89.84	F
ATOM	10170	CA	LEU	F	172	37.332	30.122	99.261	1.00	92.76	F
ATOM	10171	CB	LEU	F	172	36.363	31.301	99.055	1.00	97.93	F
ATOM	10172	CG	LEU	F	172	35.169	31.496	100.013	1.00	102.57	F
ATOM	10173	CD1	LEU	F	172	34.597	32.903	99.840	1.00	102.88	F
ATOM	10174	CD2	LEU	F	172	34.086	30.452	99.755	1.00	103.56	F
ATOM	10175	C	LEU	F	172	36.667	28.816	98.823	1.00	91.94	F
ATOM	10176	O	LEU	F	172	35.928	28.232	99.611	1.00	92.72	F
ATOM	10177	N	PRO	F	173	36.921	28.329	97.588	1.00	89.78	F
ATOM	10178	CD	PRO	F	173	38.043	28.586	96.673	1.00	87.53	F
ATOM	10179	CA	PRO	F	173	36.253	27.073	97.220	1.00	89.87	F
ATOM	10180	CB	PRO	F	173	37.083	26.573	96.033	1.00	86.88	F
ATOM	10181	CG	PRO	F	173	38.418	27.188	96.261	1.00	87.46	F
ATOM	10182	C	PRO	F	173	36.255	26.110	98.402	1.00	90.82	F
ATOM	10183	O	PRO	F	173	37.179	25.314	98.561	1.00	94.22	F
ATOM	10184	N	ASP	F	174	35.208	26.209	99.222	1.00	87.80	F
ATOM	10185	CA	ASP	F	174	35.048	25.421	100.439	1.00	83.90	F
ATOM	10186	CB	ASP	F	174	33.565	25.190	100.711	1.00	89.24	F
ATOM	10187	CG	ASP	F	174	32.824	26.493	100.948	1.00	93.37	F
ATOM	10188	OD1	ASP	F	174	32.628	27.252	99.971	1.00	93.27	F
ATOM	10189	OD2	ASP	F	174	32.456	26.770	102.113	1.00	99.59	F
ATOM	10190	C	ASP	F	174	35.832	24.125	100.475	1.00	78.11	F
ATOM	10191	O	ASP	F	174	35.914	23.402	99.485	1.00	73.38	F
ATOM	10192	N	TYR	F	175	36.402	23.861	101.646	1.00	74.59	F
ATOM	10193	CA	TYR	F	175	37.269	22.718	101.884	1.00	74.10	F
ATOM	10194	CB	TYR	F	175	36.755	21.825	103.005	1.00	72.41	F
ATOM	10195	CG	TYR	F	175	37.541	20.533	103.023	1.00	70.62	F
ATOM	10196	CD1	TYR	F	175	38.919	20.543	103.218	1.00	68.03	F
ATOM	10197	CE1	TYR	F	175	39.667	19.380	103.107	1.00	69.48	F
ATOM	10198	CD2	TYR	F	175	36.933	19.319	102.725	1.00	69.90	F
ATOM	10199	CE2	TYR	F	175	37.678	18.150	102.614	1.00	69.55	F
ATOM	10200	CZ	TYR	F	175	39.042	18.191	102.805	1.00	66.26	F
ATOM	10201	OH	TYR	F	175	39.778	17.041	102.699	1.00	65.79	F
ATOM	10202	C	TYR	F	175	37.661	21.808	100.726	1.00	74.44	F
ATOM	10203	O	TYR	F	175	38.845	21.571	100.501	1.00	81.85	F
ATOM	10204	N	PRO	F	176	36.693	21.242	100.002	1.00	66.99	F
ATOM	10205	CD	PRO	F	176	35.252	21.006	100.206	1.00	57.18	F
ATOM	10206	CA	PRO	F	176	37.232	20.393	98.935	1.00	61.29	F
ATOM	10207	CB	PRO	F	176	36.087	19.428	98.680	1.00	60.83	F
ATOM	10208	CG	PRO	F	176	34.875	20.319	98.928	1.00	61.91	F
ATOM	10209	C	PRO	F	176	37.678	21.129	97.664	1.00	56.63	F
ATOM	10210	O	PRO	F	176	38.525	20.635	96.917	1.00	52.23	F
ATOM	10211	N	GLY	F	177	37.107	22.311	97.442	1.00	56.19	F
ATOM	10212	CA	GLY	F	177	37.390	23.101	96.247	1.00	56.67	F
ATOM	10213	C	GLY	F	177	38.813	23.516	95.911	1.00	56.16	F
ATOM	10214	O	GLY	F	177	39.683	23.569	96.782	1.00	60.26	F
ATOM	10215	N	SER	F	178	39.039	23.824	94.635	1.00	49.66	F
ATOM	10216	CA	SER	F	178	40.349	24.246	94.165	1.00	47.96	F
ATOM	10217	CB	SER	F	178	41.119	23.047	93.603	1.00	41.26	F

ATOM	10218	OG	SER	F	178	40.742	22.774	92.256	1.00	32.45	F
ATOM	10219	C	SER	F	178	40.197	25.309	93.075	1.00	51.64	F
ATOM	10220	O	SER	F	178	39.382	25.158	92.169	1.00	55.16	F
ATOM	10221	N	VAL	F	179	40.979	26.383	93.155	1.00	52.51	F
ATOM	10222	CA	VAL	F	179	40.895	27.431	92.144	1.00	51.42	F
ATOM	10223	CB	VAL	F	179	40.660	28.846	92.741	1.00	46.10	F
ATOM	10224	CG1	VAL	F	179	39.648	28.799	93.834	1.00	50.13	F
ATOM	10225	CG2	VAL	F	179	41.955	29.413	93.257	1.00	49.74	F
ATOM	10226	C	VAL	F	179	42.190	27.527	91.373	1.00	53.82	F
ATOM	10227	O	VAL	F	179	43.220	26.970	91.779	1.00	51.89	F
ATOM	10228	N	PRO	F	180	42.148	28.222	90.223	1.00	55.73	F
ATOM	10229	CD	PRO	F	180	40.934	28.608	89.482	1.00	51.18	F
ATOM	10230	CA	PRO	F	180	43.336	28.412	89.391	1.00	53.12	F
ATOM	10231	CB	PRO	F	180	42.750	28.604	87.998	1.00	50.14	F
ATOM	10232	CG	PRO	F	180	41.509	29.348	88.287	1.00	52.71	F
ATOM	10233	C	PRO	F	180	43.965	29.682	89.962	1.00	48.35	F
ATOM	10234	O	PRO	F	180	43.262	30.522	90.532	1.00	43.32	F
ATOM	10235	N	ILE	F	181	45.283	29.799	89.852	1.00	47.94	F
ATOM	10236	CA	ILE	F	181	45.987	30.958	90.382	1.00	44.76	F
ATOM	10237	CB	ILE	F	181	47.118	30.551	91.315	1.00	45.38	F
ATOM	10238	CG2	ILE	F	181	47.749	31.792	91.891	1.00	52.01	F
ATOM	10239	CG1	ILE	F	181	46.582	29.675	92.444	1.00	46.78	F
ATOM	10240	CD1	ILE	F	181	47.638	29.178	93.399	1.00	46.94	F
ATOM	10241	C	ILE	F	181	46.587	31.787	89.272	1.00	43.84	F
ATOM	10242	O	ILE	F	181	47.578	31.404	88.643	1.00	36.42	F
ATOM	10243	N	PRO	F	182	45.992	32.952	89.022	1.00	47.49	F
ATOM	10244	CD	PRO	F	182	44.864	33.544	89.756	1.00	48.66	F
ATOM	10245	CA	PRO	F	182	46.464	33.853	87.975	1.00	46.15	F
ATOM	10246	CB	PRO	F	182	45.425	34.969	87.980	1.00	52.40	F
ATOM	10247	CG	PRO	F	182	44.217	34.357	88.688	1.00	51.90	F
ATOM	10248	C	PRO	F	182	47.832	34.366	88.362	1.00	46.04	F
ATOM	10249	O	PRO	F	182	47.986	35.032	89.388	1.00	41.79	F
ATOM	10250	N	LEU	F	183	48.827	34.024	87.553	1.00	48.15	F
ATOM	10251	CA	LEU	F	183	50.191	34.462	87.789	1.00	47.70	F
ATOM	10252	CB	LEU	F	183	50.826	33.683	88.945	1.00	48.18	F
ATOM	10253	CG	LEU	F	183	51.939	34.381	89.740	1.00	45.37	F
ATOM	10254	CD1	LEU	F	183	52.366	33.518	90.912	1.00	44.46	F
ATOM	10255	CD2	LEU	F	183	53.116	34.651	88.839	1.00	52.98	F
ATOM	10256	C	LEU	F	183	50.972	34.233	86.507	1.00	50.45	F
ATOM	10257	O	LEU	F	183	51.186	33.097	86.066	1.00	51.31	F
ATOM	10258	N	THR	F	184	51.378	35.337	85.897	1.00	51.66	F
ATOM	10259	CA	THR	F	184	52.139	35.296	84.661	1.00	50.11	F
ATOM	10260	CB	THR	F	184	51.313	35.851	83.498	1.00	49.94	F
ATOM	10261	OG1	THR	F	184	50.695	37.079	83.908	1.00	57.45	F
ATOM	10262	CG2	THR	F	184	50.241	34.863	83.082	1.00	45.78	F
ATOM	10263	C	THR	F	184	53.373	36.159	84.840	1.00	47.01	F
ATOM	10264	O	THR	F	184	53.467	36.920	85.799	1.00	43.89	F
ATOM	10265	N	VAL	F	185	54.323	36.016	83.927	1.00	44.20	F
ATOM	10266	CA	VAL	F	185	55.540	36.799	83.969	1.00	46.67	F
ATOM	10267	CB	VAL	F	185	56.731	36.029	84.605	1.00	47.00	F
ATOM	10268	CG1	VAL	F	185	56.437	35.718	86.035	1.00	58.85	F
ATOM	10269	CG2	VAL	F	185	57.015	34.747	83.843	1.00	45.67	F
ATOM	10270	C	VAL	F	185	55.945	37.157	82.557	1.00	48.16	F
ATOM	10271	O	VAL	F	185	55.829	36.342	81.635	1.00	44.42	F
ATOM	10272	N	TYR	F	186	56.411	38.384	82.381	1.00	49.30	F
ATOM	10273	CA	TYR	F	186	56.883	38.801	81.077	1.00	51.57	F
ATOM	10274	CB	TYR	F	186	55.873	39.711	80.376	1.00	48.54	F
ATOM	10275	CG	TYR	F	186	55.589	40.984	81.100	1.00	53.89	F

ATOM	10276	CD1	TYR	F	186	56.343	42.133	80.858	1.00	58.87	F
ATOM	10277	CE1	TYR	F	186	56.095	43.315	81.558	1.00	61.00	F
ATOM	10278	CD2	TYR	F	186	54.576	41.046	82.058	1.00	62.77	F
ATOM	10279	CE2	TYR	F	186	54.319	42.220	82.765	1.00	62.14	F
ATOM	10280	CZ	TYR	F	186	55.083	43.347	82.514	1.00	61.85	F
ATOM	10281	OH	TYR	F	186	54.856	44.493	83.239	1.00	66.26	F
ATOM	10282	C	TYR	F	186	58.184	39.510	81.337	1.00	50.91	F
ATOM	10283	O	TYR	F	186	58.413	40.003	82.441	1.00	49.34	F
ATOM	10284	N	CYS	F	187	59.046	39.512	80.327	1.00	52.38	F
ATOM	10285	CA	CYS	F	187	60.350	40.144	80.406	1.00	50.84	F
ATOM	10286	C	CYS	F	187	60.564	41.058	79.203	1.00	50.54	F
ATOM	10287	O	CYS	F	187	60.378	40.637	78.063	1.00	48.18	F
ATOM	10288	CB	CYS	F	187	61.454	39.089	80.386	1.00	50.87	F
ATOM	10289	SG	CYS	F	187	61.340	37.729	81.586	1.00	57.36	F
ATOM	10290	N	ALA	F	188	60.989	42.293	79.454	1.00	52.46	F
ATOM	10291	CA	ALA	F	188	61.260	43.238	78.371	1.00	48.55	F
ATOM	10292	CB	ALA	F	188	61.781	44.545	78.941	1.00	44.28	F
ATOM	10293	C	ALA	F	188	62.286	42.618	77.418	1.00	46.29	F
ATOM	10294	O	ALA	F	188	62.279	42.878	76.220	1.00	49.26	F
ATOM	10295	N	LYS	F	189	63.158	41.788	77.964	1.00	44.51	F
ATOM	10296	CA	LYS	F	189	64.170	41.105	77.180	1.00	47.86	F
ATOM	10297	CB	LYS	F	189	65.579	41.557	77.586	1.00	52.03	F
ATOM	10298	CG	LYS	F	189	65.813	43.063	77.573	1.00	57.12	F
ATOM	10299	CD	LYS	F	189	65.728	43.620	76.167	1.00	63.32	F
ATOM	10300	CE	LYS	F	189	66.748	42.972	75.227	1.00	61.67	F
ATOM	10301	NZ	LYS	F	189	66.493	43.367	73.801	1.00	66.73	F
ATOM	10302	C	LYS	F	189	64.022	39.628	77.505	1.00	51.69	F
ATOM	10303	O	LYS	F	189	64.076	39.244	78.678	1.00	55.59	F
ATOM	10304	N	SER	F	190	63.831	38.796	76.486	1.00	50.60	F
ATOM	10305	CA	SER	F	190	63.698	37.363	76.721	1.00	50.56	F
ATOM	10306	CB	SER	F	190	63.598	36.597	75.411	1.00	51.12	F
ATOM	10307	OG	SER	F	190	64.290	35.361	75.520	1.00	50.39	F
ATOM	10308	C	SER	F	190	64.877	36.811	77.513	1.00	49.58	F
ATOM	10309	O	SER	F	190	66.020	37.227	77.321	1.00	49.11	F
ATOM	10310	N	GLN	F	191	64.581	35.862	78.399	1.00	50.63	F
ATOM	10311	CA	GLN	F	191	65.595	35.226	79.237	1.00	47.61	F
ATOM	10312	CB	GLN	F	191	66.121	36.227	80.257	1.00	45.70	F
ATOM	10313	CG	GLN	F	191	65.040	36.888	81.077	1.00	50.64	F
ATOM	10314	CD	GLN	F	191	65.606	37.897	82.045	1.00	51.82	F
ATOM	10315	OE1	GLN	F	191	66.370	37.549	82.947	1.00	55.61	F
ATOM	10316	NE2	GLN	F	191	65.243	39.160	81.861	1.00	53.10	F
ATOM	10317	C	GLN	F	191	65.022	34.011	79.954	1.00	44.30	F
ATOM	10318	O	GLN	F	191	63.814	33.895	80.126	1.00	42.85	F
ATOM	10319	N	ASN	F	192	65.892	33.103	80.367	1.00	45.64	F
ATOM	10320	CA	ASN	F	192	65.442	31.911	81.068	1.00	47.62	F
ATOM	10321	CB	ASN	F	192	66.481	30.815	80.935	1.00	48.35	F
ATOM	10322	CG	ASN	F	192	66.865	30.581	79.509	1.00	54.65	F
ATOM	10323	OD1	ASN	F	192	66.003	30.533	78.622	1.00	56.71	F
ATOM	10324	ND2	ASN	F	192	68.162	30.433	79.263	1.00	62.43	F
ATOM	10325	C	ASN	F	192	65.149	32.160	82.541	1.00	47.62	F
ATOM	10326	O	ASN	F	192	65.963	32.717	83.284	1.00	52.94	F
ATOM	10327	N	LEU	F	193	63.965	31.744	82.957	1.00	45.05	F
ATOM	10328	CA	LEU	F	193	63.545	31.899	84.328	1.00	39.08	F
ATOM	10329	CB	LEU	F	193	62.288	32.760	84.419	1.00	34.72	F
ATOM	10330	CG	LEU	F	193	62.426	34.266	84.242	1.00	40.78	F
ATOM	10331	CD1	LEU	F	193	61.079	34.936	84.521	1.00	33.98	F
ATOM	10332	CD2	LEU	F	193	63.502	34.797	85.196	1.00	41.58	F
ATOM	10333	C	LEU	F	193	63.235	30.542	84.901	1.00	39.87	F

ATOM	10334	O	LEU	F	193	62.984	29.584	84.179	1.00	39.84	F
ATOM	10335	N	GLY	F	194	63.255	30.480	86.220	1.00	40.84	F
ATOM	10336	CA	GLY	F	194	62.940	29.263	86.927	1.00	38.18	F
ATOM	10337	C	GLY	F	194	62.341	29.755	88.218	1.00	36.55	F
ATOM	10338	O	GLY	F	194	62.579	30.908	88.588	1.00	36.19	F
ATOM	10339	N	TYR	F	195	61.541	28.932	88.886	1.00	33.60	F
ATOM	10340	CA	TYR	F	195	60.990	29.356	90.161	1.00	30.66	F
ATOM	10341	CB	TYR	F	195	59.642	30.038	89.982	1.00	29.45	F
ATOM	10342	CG	TYR	F	195	58.519	29.091	89.691	1.00	41.96	F
ATOM	10343	CD1	TYR	F	195	58.329	28.576	88.409	1.00	40.71	F
ATOM	10344	CE1	TYR	F	195	57.289	27.699	88.148	1.00	42.90	F
ATOM	10345	CD2	TYR	F	195	57.636	28.698	90.707	1.00	40.48	F
ATOM	10346	CE2	TYR	F	195	56.592	27.819	90.454	1.00	41.73	F
ATOM	10347	CZ	TYR	F	195	56.424	27.320	89.172	1.00	43.82	F
ATOM	10348	OH	TYR	F	195	55.404	26.429	88.912	1.00	43.47	F
ATOM	10349	C	TYR	F	195	60.846	28.206	91.131	1.00	30.45	F
ATOM	10350	O	TYR	F	195	60.912	27.034	90.750	1.00	31.27	F
ATOM	10351	N	TYR	F	196	60.699	28.553	92.403	1.00	30.64	F
ATOM	10352	CA	TYR	F	196	60.502	27.562	93.450	1.00	29.73	F
ATOM	10353	CB	TYR	F	196	61.829	26.994	93.976	1.00	30.67	F
ATOM	10354	CG	TYR	F	196	62.702	27.960	94.746	1.00	30.88	F
ATOM	10355	CD1	TYR	F	196	62.313	28.460	95.995	1.00	32.00	F
ATOM	10356	CE1	TYR	F	196	63.121	29.334	96.694	1.00	27.19	F
ATOM	10357	CD2	TYR	F	196	63.921	28.368	94.228	1.00	24.06	F
ATOM	10358	CE2	TYR	F	196	64.731	29.246	94.918	1.00	32.18	F
ATOM	10359	CZ	TYR	F	196	64.334	29.724	96.147	1.00	31.83	F
ATOM	10360	OH	TYR	F	196	65.176	30.572	96.816	1.00	30.82	F
ATOM	10361	C	TYR	F	196	59.716	28.206	94.572	1.00	28.56	F
ATOM	10362	O	TYR	F	196	59.766	29.430	94.770	1.00	24.61	F
ATOM	10363	N	LEU	F	197	58.961	27.366	95.274	1.00	28.33	F
ATOM	10364	CA	LEU	F	197	58.124	27.788	96.383	1.00	21.78	F
ATOM	10365	CB	LEU	F	197	56.867	26.936	96.417	1.00	20.39	F
ATOM	10366	CG	LEU	F	197	56.042	27.036	95.142	1.00	23.48	F
ATOM	10367	CD1	LEU	F	197	54.812	26.166	95.263	1.00	23.67	F
ATOM	10368	CD2	LEU	F	197	55.637	28.484	94.911	1.00	23.18	F
ATOM	10369	C	LEU	F	197	58.890	27.655	97.689	1.00	21.32	F
ATOM	10370	O	LEU	F	197	59.872	26.907	97.793	1.00	20.62	F
ATOM	10371	N	SER	F	198	58.427	28.380	98.690	1.00	18.02	F
ATOM	10372	CA	SER	F	198	59.085	28.377	99.983	1.00	18.36	F
ATOM	10373	CB	SER	F	198	60.196	29.415	99.964	1.00	17.67	F
ATOM	10374	OG	SER	F	198	59.625	30.712	99.807	1.00	23.99	F
ATOM	10375	C	SER	F	198	58.072	28.731	101.073	1.00	20.73	F
ATOM	10376	O	SER	F	198	57.209	29.605	100.902	1.00	17.17	F
ATOM	10377	N	GLY	F	199	58.192	28.057	102.205	1.00	20.76	F
ATOM	10378	CA	GLY	F	199	57.275	28.308	103.294	1.00	20.52	F
ATOM	10379	C	GLY	F	199	57.202	27.121	104.223	1.00	21.01	F
ATOM	10380	O	GLY	F	199	57.762	26.067	103.942	1.00	23.80	F
ATOM	10381	N	THR	F	200	56.520	27.299	105.343	1.00	26.00	F
ATOM	10382	CA	THR	F	200	56.365	26.237	106.334	1.00	28.24	F
ATOM	10383	CB	THR	F	200	55.707	26.770	107.591	1.00	25.46	F
ATOM	10384	OG1	THR	F	200	56.467	27.872	108.073	1.00	26.62	F
ATOM	10385	CG2	THR	F	200	55.667	25.712	108.657	1.00	30.57	F
ATOM	10386	C	THR	F	200	55.510	25.113	105.779	1.00	26.46	F
ATOM	10387	O	THR	F	200	54.421	25.339	105.282	1.00	24.61	F
ATOM	10388	N	THR	F	201	56.016	23.897	105.881	1.00	27.85	F
ATOM	10389	CA	THR	F	201	55.327	22.736	105.352	1.00	29.71	F
ATOM	10390	CB	THR	F	201	56.290	21.991	104.428	1.00	27.59	F
ATOM	10391	OG1	THR	F	201	56.018	22.382	103.082	1.00	28.57	F

ATOM	10392	CG2	THR	F	201	56.178	20.493	104.599	1.00	35.56	F
ATOM	10393	C	THR	F	201	54.780	21.803	106.436	1.00	29.82	F
ATOM	10394	O	THR	F	201	55.290	21.778	107.563	1.00	30.99	F
ATOM	10395	N	ALA	F	202	53.767	21.011	106.097	1.00	25.17	F
ATOM	10396	CA	ALA	F	202	53.189	20.130	107.103	1.00	24.51	F
ATOM	10397	CB	ALA	F	202	51.705	20.487	107.316	1.00	16.89	F
ATOM	10398	C	ALA	F	202	53.315	18.651	106.807	1.00	24.36	F
ATOM	10399	O	ALA	F	202	52.731	17.829	107.519	1.00	24.75	F
ATOM	10400	N	ASP	F	203	54.081	18.296	105.784	1.00	22.78	F
ATOM	10401	CA	ASP	F	203	54.191	16.892	105.403	1.00	21.00	F
ATOM	10402	CB	ASP	F	203	53.284	16.616	104.210	1.00	24.38	F
ATOM	10403	CG	ASP	F	203	53.568	17.530	103.035	1.00	32.04	F
ATOM	10404	OD1	ASP	F	203	53.724	17.015	101.909	1.00	36.45	F
ATOM	10405	OD2	ASP	F	203	53.629	18.761	103.232	1.00	33.20	F
ATOM	10406	C	ASP	F	203	55.585	16.472	105.044	1.00	22.77	F
ATOM	10407	O	ASP	F	203	56.417	17.311	104.719	1.00	24.92	F
ATOM	10408	N	ALA	F	204	55.834	15.169	105.088	1.00	21.68	F
ATOM	10409	CA	ALA	F	204	57.137	14.625	104.757	1.00	22.20	F
ATOM	10410	CB	ALA	F	204	57.153	13.161	105.027	1.00	15.15	F
ATOM	10411	C	ALA	F	204	57.503	14.891	103.288	1.00	29.38	F
ATOM	10412	O	ALA	F	204	58.686	14.989	102.940	1.00	35.06	F
ATOM	10413	N	GLY	F	205	56.496	15.003	102.429	1.00	25.75	F
ATOM	10414	CA	GLY	F	205	56.762	15.269	101.031	1.00	27.27	F
ATOM	10415	C	GLY	F	205	57.024	16.749	100.841	1.00	27.65	F
ATOM	10416	O	GLY	F	205	57.250	17.238	99.742	1.00	23.75	F
ATOM	10417	N	ASN	F	206	56.967	17.468	101.948	1.00	31.43	F
ATOM	10418	CA	ASN	F	206	57.229	18.893	101.957	1.00	32.46	F
ATOM	10419	CB	ASN	F	206	58.742	19.120	101.848	1.00	32.01	F
ATOM	10420	CG	ASN	F	206	59.134	20.570	102.049	1.00	39.34	F
ATOM	10421	OD1	ASN	F	206	59.871	21.136	101.244	1.00	47.33	F
ATOM	10422	ND2	ASN	F	206	58.646	21.180	103.125	1.00	38.46	F
ATOM	10423	C	ASN	F	206	56.481	19.686	100.880	1.00	29.98	F
ATOM	10424	O	ASN	F	206	57.018	20.627	100.318	1.00	28.14	F
ATOM	10425	N	SER	F	207	55.228	19.337	100.615	1.00	33.14	F
ATOM	10426	CA	SER	F	207	54.478	20.069	99.596	1.00	35.37	F
ATOM	10427	CB	SER	F	207	54.357	19.236	98.330	1.00	36.23	F
ATOM	10428	OG	SER	F	207	53.337	18.283	98.494	1.00	43.75	F
ATOM	10429	C	SER	F	207	53.083	20.537	99.995	1.00	31.91	F
ATOM	10430	O	SER	F	207	52.317	20.954	99.137	1.00	34.14	F
ATOM	10431	N	ILE	F	208	52.749	20.459	101.281	1.00	29.56	F
ATOM	10432	CA	ILE	F	208	51.442	20.915	101.779	1.00	27.49	F
ATOM	10433	CB	ILE	F	208	50.679	19.777	102.485	1.00	21.07	F
ATOM	10434	CG2	ILE	F	208	49.324	20.254	102.914	1.00	18.64	F
ATOM	10435	CG1	ILE	F	208	50.515	18.603	101.525	1.00	22.51	F
ATOM	10436	CD1	ILE	F	208	50.147	17.331	102.180	1.00	27.27	F
ATOM	10437	C	ILE	F	208	51.720	22.052	102.762	1.00	32.62	F
ATOM	10438	O	ILE	F	208	52.211	21.839	103.887	1.00	33.08	F
ATOM	10439	N	PHE	F	209	51.422	23.269	102.330	1.00	33.60	F
ATOM	10440	CA	PHE	F	209	51.705	24.418	103.160	1.00	35.80	F
ATOM	10441	CB	PHE	F	209	51.771	25.678	102.294	1.00	37.93	F
ATOM	10442	CG	PHE	F	209	52.955	25.696	101.362	1.00	35.88	F
ATOM	10443	CD1	PHE	F	209	52.887	25.073	100.120	1.00	33.91	F
ATOM	10444	CD2	PHE	F	209	54.174	26.239	101.775	1.00	37.29	F
ATOM	10445	CE1	PHE	F	209	54.010	24.977	99.304	1.00	32.08	F
ATOM	10446	CE2	PHE	F	209	55.303	26.147	100.969	1.00	35.51	F
ATOM	10447	CZ	PHE	F	209	55.219	25.512	99.728	1.00	35.50	F
ATOM	10448	C	PHE	F	209	50.782	24.604	104.338	1.00	39.96	F
ATOM	10449	O	PHE	F	209	49.570	24.721	104.201	1.00	46.89	F

ATOM	10450	N	THR	F	210	51.402	24.607	105.507	1.00	44.59	F
ATOM	10451	CA	THR	F	210	50.758	24.761	106.802	1.00	47.83	F
ATOM	10452	CB	THR	F	210	51.822	25.106	107.855	1.00	48.02	F
ATOM	10453	OG1	THR	F	210	52.596	23.934	108.138	1.00	51.20	F
ATOM	10454	CG2	THR	F	210	51.192	25.646	109.120	1.00	51.79	F
ATOM	10455	C	THR	F	210	49.664	25.814	106.849	1.00	51.30	F
ATOM	10456	O	THR	F	210	49.800	26.891	106.264	1.00	50.34	F
ATOM	10457	N	ASN	F	211	48.582	25.495	107.560	1.00	55.30	F
ATOM	10458	CA	ASN	F	211	47.479	26.429	107.698	1.00	56.28	F
ATOM	10459	CB	ASN	F	211	46.212	25.735	108.179	1.00	58.78	F
ATOM	10460	CG	ASN	F	211	45.054	26.711	108.352	1.00	63.24	F
ATOM	10461	OD1	ASN	F	211	43.955	26.326	108.755	1.00	68.52	F
ATOM	10462	ND2	ASN	F	211	45.299	27.983	108.046	1.00	57.50	F
ATOM	10463	C	ASN	F	211	47.839	27.512	108.688	1.00	55.03	F
ATOM	10464	O	ASN	F	211	48.052	27.255	109.866	1.00	51.94	F
ATOM	10465	N	THR	F	212	47.891	28.735	108.190	1.00	58.08	F
ATOM	10466	CA	THR	F	212	48.225	29.885	109.008	1.00	63.10	F
ATOM	10467	CB	THR	F	212	49.415	30.627	108.403	1.00	59.51	F
ATOM	10468	OG1	THR	F	212	50.611	29.903	108.696	1.00	53.75	F
ATOM	10469	CG2	THR	F	212	49.513	32.031	108.952	1.00	62.84	F
ATOM	10470	C	THR	F	212	47.029	30.825	109.093	1.00	68.26	F
ATOM	10471	O	THR	F	212	46.708	31.525	108.133	1.00	69.74	F
ATOM	10472	N	ALA	F	213	46.373	30.835	110.245	1.00	71.45	F
ATOM	10473	CA	ALA	F	213	45.208	31.682	110.448	1.00	74.27	F
ATOM	10474	CB	ALA	F	213	44.084	31.259	109.511	1.00	66.85	F
ATOM	10475	C	ALA	F	213	44.757	31.557	111.892	1.00	77.63	F
ATOM	10476	O	ALA	F	213	45.020	30.544	112.549	1.00	74.42	F
ATOM	10477	N	SER	F	214	44.078	32.587	112.385	1.00	83.95	F
ATOM	10478	CA	SER	F	214	43.593	32.565	113.757	1.00	91.28	F
ATOM	10479	CB	SER	F	214	43.768	33.937	114.404	1.00	92.80	F
ATOM	10480	OG	SER	F	214	43.638	33.838	115.814	1.00	97.74	F
ATOM	10481	C	SER	F	214	42.129	32.117	113.863	1.00	94.45	F
ATOM	10482	O	SER	F	214	41.846	31.080	114.471	1.00	92.60	F
ATOM	10483	N	PHE	F	215	41.210	32.884	113.269	1.00	97.80	F
ATOM	10484	CA	PHE	F	215	39.779	32.554	113.325	1.00	102.71	F
ATOM	10485	CB	PHE	F	215	38.997	33.273	112.216	1.00	109.46	F
ATOM	10486	CG	PHE	F	215	37.507	32.989	112.241	1.00	117.60	F
ATOM	10487	CD1	PHE	F	215	36.755	33.031	111.066	1.00	120.34	F
ATOM	10488	CD2	PHE	F	215	36.857	32.674	113.438	1.00	118.79	F
ATOM	10489	CE1	PHE	F	215	35.381	32.760	111.077	1.00	121.17	F
ATOM	10490	CE2	PHE	F	215	35.486	32.403	113.461	1.00	121.39	F
ATOM	10491	CZ	PHE	F	215	34.747	32.446	112.278	1.00	122.32	F
ATOM	10492	C	PHE	F	215	39.488	31.056	113.229	1.00	102.54	F
ATOM	10493	O	PHE	F	215	39.387	30.500	112.132	1.00	99.59	F
ATOM	10494	N	SER	F	216	39.326	30.426	114.391	1.00	104.24	F
ATOM	10495	CA	SER	F	216	39.052	28.998	114.478	1.00	105.16	F
ATOM	10496	CB	SER	F	216	37.546	28.737	114.444	1.00	108.55	F
ATOM	10497	OG	SER	F	216	37.278	27.368	114.700	1.00	112.72	F
ATOM	10498	C	SER	F	216	39.733	28.284	113.322	1.00	103.49	F
ATOM	10499	O	SER	F	216	39.145	28.073	112.260	1.00	104.40	F
ATOM	10500	N	PRO	F	217	40.996	27.901	113.521	1.00	101.08	F
ATOM	10501	CD	PRO	F	217	41.713	27.923	114.807	1.00	101.05	F
ATOM	10502	CA	PRO	F	217	41.786	27.212	112.504	1.00	97.88	F
ATOM	10503	CB	PRO	F	217	43.129	27.018	113.195	1.00	99.53	F
ATOM	10504	CG	PRO	F	217	42.727	26.820	114.621	1.00	99.95	F
ATOM	10505	C	PRO	F	217	41.196	25.895	112.033	1.00	93.33	F
ATOM	10506	O	PRO	F	217	41.327	24.881	112.711	1.00	92.43	F
ATOM	10507	N	ALA	F	218	40.537	25.917	110.878	1.00	87.34	F

ATOM	10508	CA	ALA	F	218	39.981	24.696	110.327	1.00	83.11	F
ATOM	10509	CB	ALA	F	218	39.484	24.936	108.919	1.00	78.55	F
ATOM	10510	C	ALA	F	218	41.156	23.723	110.311	1.00	80.97	F
ATOM	10511	O	ALA	F	218	41.893	23.643	109.329	1.00	86.56	F
ATOM	10512	N	GLN	F	219	41.333	22.992	111.403	1.00	75.62	F
ATOM	10513	CA	GLN	F	219	42.441	22.056	111.527	1.00	73.73	F
ATOM	10514	CB	GLN	F	219	42.521	21.534	112.956	1.00	75.97	F
ATOM	10515	CG	GLN	F	219	43.650	20.544	113.162	1.00	84.49	F
ATOM	10516	CD	GLN	F	219	43.584	19.874	114.507	1.00	88.78	F
ATOM	10517	OE1	GLN	F	219	44.426	19.038	114.840	1.00	92.27	F
ATOM	10518	NE2	GLN	F	219	42.578	20.237	115.297	1.00	93.28	F
ATOM	10519	C	GLN	F	219	42.401	20.861	110.588	1.00	70.17	F
ATOM	10520	O	GLN	F	219	41.336	20.458	110.134	1.00	67.95	F
ATOM	10521	N	GLY	F	220	43.582	20.305	110.305	1.00	68.25	F
ATOM	10522	CA	GLY	F	220	43.683	19.119	109.464	1.00	65.48	F
ATOM	10523	C	GLY	F	220	43.853	19.257	107.960	1.00	62.73	F
ATOM	10524	O	GLY	F	220	44.088	18.257	107.271	1.00	59.78	F
ATOM	10525	N	VAL	F	221	43.748	20.476	107.440	1.00	59.89	F
ATOM	10526	CA	VAL	F	221	43.885	20.666	106.010	1.00	56.67	F
ATOM	10527	CB	VAL	F	221	42.749	21.550	105.455	1.00	55.75	F
ATOM	10528	CG1	VAL	F	221	42.633	21.354	103.955	1.00	54.26	F
ATOM	10529	CG2	VAL	F	221	41.453	21.197	106.114	1.00	52.01	F
ATOM	10530	C	VAL	F	221	45.243	21.243	105.594	1.00	55.22	F
ATOM	10531	O	VAL	F	221	46.279	20.679	105.921	1.00	54.50	F
ATOM	10532	N	GLY	F	222	45.234	22.362	104.874	1.00	51.65	F
ATOM	10533	CA	GLY	F	222	46.469	22.959	104.400	1.00	46.46	F
ATOM	10534	C	GLY	F	222	46.406	23.152	102.894	1.00	42.17	F
ATOM	10535	O	GLY	F	222	45.732	22.392	102.202	1.00	41.35	F
ATOM	10536	N	VAL	F	223	47.107	24.164	102.390	1.00	37.72	F
ATOM	10537	CA	VAL	F	223	47.125	24.493	100.962	1.00	35.87	F
ATOM	10538	CB	VAL	F	223	47.216	26.020	100.777	1.00	37.56	F
ATOM	10539	CG1	VAL	F	223	47.381	26.368	99.309	1.00	35.41	F
ATOM	10540	CG2	VAL	F	223	45.980	26.683	101.360	1.00	36.71	F
ATOM	10541	C	VAL	F	223	48.268	23.852	100.169	1.00	35.14	F
ATOM	10542	O	VAL	F	223	49.422	23.859	100.610	1.00	36.72	F
ATOM	10543	N	GLN	F	224	47.948	23.306	98.996	1.00	31.55	F
ATOM	10544	CA	GLN	F	224	48.960	22.679	98.139	1.00	32.25	F
ATOM	10545	CB	GLN	F	224	48.770	21.170	98.079	1.00	23.80	F
ATOM	10546	CG	GLN	F	224	49.892	20.445	97.377	1.00	29.29	F
ATOM	10547	CD	GLN	F	224	49.603	18.964	97.213	1.00	35.38	F
ATOM	10548	OE1	GLN	F	224	50.492	18.127	97.327	1.00	39.88	F
ATOM	10549	NE2	GLN	F	224	48.354	18.636	96.928	1.00	39.88	F
ATOM	10550	C	GLN	F	224	48.823	23.264	96.739	1.00	34.83	F
ATOM	10551	O	GLN	F	224	47.714	23.405	96.230	1.00	36.65	F
ATOM	10552	N	LEU	F	225	49.946	23.625	96.124	1.00	33.16	F
ATOM	10553	CA	LEU	F	225	49.899	24.212	94.798	1.00	26.80	F
ATOM	10554	CB	LEU	F	225	50.818	25.424	94.708	1.00	24.47	F
ATOM	10555	CG	LEU	F	225	50.532	26.535	95.713	1.00	30.63	F
ATOM	10556	CD1	LEU	F	225	51.273	27.797	95.318	1.00	26.95	F
ATOM	10557	CD2	LEU	F	225	49.051	26.804	95.765	1.00	31.03	F
ATOM	10558	C	LEU	F	225	50.255	23.214	93.724	1.00	28.30	F
ATOM	10559	O	LEU	F	225	51.149	22.367	93.873	1.00	28.82	F
ATOM	10560	N	THR	F	226	49.555	23.340	92.613	1.00	27.64	F
ATOM	10561	CA	THR	F	226	49.757	22.429	91.524	1.00	26.10	F
ATOM	10562	CB	THR	F	226	48.541	21.476	91.519	1.00	27.06	F
ATOM	10563	OG1	THR	F	226	48.919	20.200	90.996	1.00	32.61	F
ATOM	10564	CG2	THR	F	226	47.393	22.085	90.724	1.00	23.72	F
ATOM	10565	C	THR	F	226	49.918	23.227	90.213	1.00	24.33	F

ATOM	10566	O	THR	F	226	49.410	24.358	90.089	1.00	18.60	F
ATOM	10567	N	ARG	F	227	50.666	22.664	89.265	1.00	23.63	F
ATOM	10568	CA	ARG	F	227	50.878	23.313	87.957	1.00	28.25	F
ATOM	10569	CB	ARG	F	227	52.366	23.732	87.768	1.00	23.97	F
ATOM	10570	CG	ARG	F	227	53.389	22.592	87.856	1.00	19.97	F
ATOM	10571	CD	ARG	F	227	54.838	23.097	87.707	1.00	32.16	F
ATOM	10572	NE	ARG	F	227	55.717	22.101	87.084	1.00	24.19	F
ATOM	10573	CZ	ARG	F	227	56.521	21.281	87.746	1.00	33.86	F
ATOM	10574	NH1	ARG	F	227	56.585	21.329	89.079	1.00	41.00	F
ATOM	10575	NH2	ARG	F	227	57.245	20.396	87.073	1.00	32.98	F
ATOM	10576	C	ARG	F	227	50.413	22.306	86.885	1.00	29.12	F
ATOM	10577	O	ARG	F	227	51.119	21.340	86.550	1.00	19.26	F
ATOM	10578	N	ASN	F	228	49.203	22.542	86.371	1.00	37.43	F
ATOM	10579	CA	ASN	F	228	48.576	21.640	85.399	1.00	40.87	F
ATOM	10580	CB	ASN	F	228	49.280	21.732	84.046	1.00	46.11	F
ATOM	10581	CG	ASN	F	228	48.941	23.004	83.310	1.00	53.57	F
ATOM	10582	OD1	ASN	F	228	49.144	23.100	82.106	1.00	63.83	F
ATOM	10583	ND2	ASN	F	228	48.418	23.994	84.029	1.00	55.74	F
ATOM	10584	C	ASN	F	228	48.614	20.197	85.920	1.00	39.85	F
ATOM	10585	O	ASN	F	228	49.092	19.278	85.248	1.00	36.61	F
ATOM	10586	N	GLY	F	229	48.142	20.008	87.145	1.00	40.15	F
ATOM	10587	CA	GLY	F	229	48.136	18.673	87.708	1.00	41.53	F
ATOM	10588	C	GLY	F	229	49.365	18.225	88.474	1.00	44.11	F
ATOM	10589	O	GLY	F	229	49.256	17.351	89.336	1.00	47.09	F
ATOM	10590	N	THR	F	230	50.529	18.795	88.173	1.00	43.06	F
ATOM	10591	CA	THR	F	230	51.756	18.409	88.865	1.00	38.98	F
ATOM	10592	CB	THR	F	230	52.980	18.692	88.028	1.00	38.48	F
ATOM	10593	OG1	THR	F	230	52.997	17.804	86.914	1.00	40.77	F
ATOM	10594	CG2	THR	F	230	54.243	18.493	88.850	1.00	39.33	F
ATOM	10595	C	THR	F	230	51.904	19.171	90.159	1.00	40.34	F
ATOM	10596	O	THR	F	230	51.704	20.391	90.204	1.00	44.88	F
ATOM	10597	N	ILE	F	231	52.263	18.446	91.211	1.00	35.92	F
ATOM	10598	CA	ILE	F	231	52.426	19.039	92.527	1.00	31.43	F
ATOM	10599	CB	ILE	F	231	52.391	17.957	93.635	1.00	35.44	F
ATOM	10600	CG2	ILE	F	231	52.887	18.529	94.965	1.00	26.88	F
ATOM	10601	CG1	ILE	F	231	50.976	17.400	93.781	1.00	32.09	F
ATOM	10602	CD1	ILE	F	231	50.886	16.318	94.833	1.00	37.20	F
ATOM	10603	C	ILE	F	231	53.749	19.760	92.597	1.00	31.11	F
ATOM	10604	O	ILE	F	231	54.754	19.297	92.060	1.00	29.98	F
ATOM	10605	N	ILE	F	232	53.744	20.904	93.264	1.00	30.85	F
ATOM	10606	CA	ILE	F	232	54.960	21.680	93.417	1.00	28.10	F
ATOM	10607	CB	ILE	F	232	54.732	23.125	92.941	1.00	25.91	F
ATOM	10608	CG2	ILE	F	232	56.033	23.919	93.006	1.00	23.07	F
ATOM	10609	CG1	ILE	F	232	54.218	23.111	91.495	1.00	31.02	F
ATOM	10610	CD1	ILE	F	232	53.700	24.448	91.009	1.00	13.97	F
ATOM	10611	C	ILE	F	232	55.435	21.686	94.882	1.00	28.20	F
ATOM	10612	O	ILE	F	232	54.902	22.413	95.721	1.00	30.12	F
ATOM	10613	N	PRO	F	233	56.403	20.828	95.221	1.00	23.51	F
ATOM	10614	CD	PRO	F	233	56.797	19.579	94.548	1.00	20.51	F
ATOM	10615	CA	PRO	F	233	56.862	20.850	96.613	1.00	25.49	F
ATOM	10616	CB	PRO	F	233	57.588	19.505	96.772	1.00	27.31	F
ATOM	10617	CG	PRO	F	233	57.954	19.118	95.378	1.00	26.02	F
ATOM	10618	C	PRO	F	233	57.785	22.047	96.810	1.00	27.96	F
ATOM	10619	O	PRO	F	233	58.404	22.521	95.857	1.00	29.04	F
ATOM	10620	N	ALA	F	234	57.865	22.545	98.039	1.00	27.60	F
ATOM	10621	CA	ALA	F	234	58.714	23.694	98.356	1.00	24.69	F
ATOM	10622	CB	ALA	F	234	58.629	24.008	99.816	1.00	24.83	F
ATOM	10623	C	ALA	F	234	60.155	23.424	97.995	1.00	24.80	F

ATOM	10624	O	ALA	F	234	60.646	22.319	98.210	1.00	26.82	F
ATOM	10625	N	ASN	F	235	60.829	24.433	97.442	1.00	23.62	F
ATOM	10626	CA	ASN	F	235	62.242	24.317	97.067	1.00	23.66	F
ATOM	10627	CB	ASN	F	235	63.072	24.041	98.318	1.00	21.66	F
ATOM	10628	CG	ASN	F	235	62.825	25.081	99.395	1.00	30.10	F
ATOM	10629	OD1	ASN	F	235	62.306	24.775	100.470	1.00	29.35	F
ATOM	10630	ND2	ASN	F	235	63.165	26.330	99.097	1.00	26.68	F
ATOM	10631	C	ASN	F	235	62.560	23.284	95.992	1.00	26.35	F
ATOM	10632	O	ASN	F	235	63.547	22.566	96.078	1.00	26.83	F
ATOM	10633	N	ASN	F	236	61.700	23.216	94.985	1.00	27.81	F
ATOM	10634	CA	ASN	F	236	61.853	22.318	93.859	1.00	29.25	F
ATOM	10635	CB	ASN	F	236	60.676	21.337	93.807	1.00	40.50	F
ATOM	10636	CG	ASN	F	236	60.618	20.541	92.502	1.00	41.01	F
ATOM	10637	OD1	ASN	F	236	61.560	19.835	92.149	1.00	42.82	F
ATOM	10638	ND2	ASN	F	236	59.500	20.657	91.785	1.00	48.16	F
ATOM	10639	C	ASN	F	236	61.787	23.285	92.694	1.00	33.48	F
ATOM	10640	O	ASN	F	236	60.708	23.749	92.351	1.00	36.42	F
ATOM	10641	N	THR	F	237	62.924	23.604	92.085	1.00	32.09	F
ATOM	10642	CA	THR	F	237	62.918	24.572	91.003	1.00	32.86	F
ATOM	10643	CB	THR	F	237	64.359	25.021	90.647	1.00	37.39	F
ATOM	10644	OG1	THR	F	237	65.079	25.342	91.849	1.00	41.30	F
ATOM	10645	CG2	THR	F	237	64.315	26.262	89.775	1.00	35.44	F
ATOM	10646	C	THR	F	237	62.201	24.119	89.739	1.00	32.52	F
ATOM	10647	O	THR	F	237	62.508	23.082	89.162	1.00	30.22	F
ATOM	10648	N	VAL	F	238	61.222	24.911	89.331	1.00	35.14	F
ATOM	10649	CA	VAL	F	238	60.453	24.625	88.134	1.00	39.69	F
ATOM	10650	CB	VAL	F	238	58.950	24.928	88.314	1.00	44.18	F
ATOM	10651	CG1	VAL	F	238	58.247	24.903	86.951	1.00	38.87	F
ATOM	10652	CG2	VAL	F	238	58.318	23.908	89.243	1.00	49.27	F
ATOM	10653	C	VAL	F	238	60.980	25.532	87.050	1.00	41.50	F
ATOM	10654	O	VAL	F	238	60.943	26.761	87.170	1.00	39.01	F
ATOM	10655	N	SER	F	239	61.462	24.918	85.982	1.00	43.89	F
ATOM	10656	CA	SER	F	239	62.014	25.671	84.878	1.00	43.31	F
ATOM	10657	CB	SER	F	239	63.013	24.830	84.118	1.00	41.32	F
ATOM	10658	OG	SER	F	239	63.468	25.575	83.011	1.00	55.91	F
ATOM	10659	C	SER	F	239	60.975	26.169	83.905	1.00	41.15	F
ATOM	10660	O	SER	F	239	60.288	25.383	83.266	1.00	43.92	F
ATOM	10661	N	LEU	F	240	60.882	27.483	83.782	1.00	39.28	F
ATOM	10662	CA	LEU	F	240	59.932	28.110	82.874	1.00	39.73	F
ATOM	10663	CB	LEU	F	240	59.601	29.504	83.380	1.00	31.02	F
ATOM	10664	CG	LEU	F	240	58.590	29.568	84.509	1.00	32.72	F
ATOM	10665	CD1	LEU	F	240	58.492	30.995	85.017	1.00	33.67	F
ATOM	10666	CD2	LEU	F	240	57.240	29.078	84.004	1.00	21.36	F
ATOM	10667	C	LEU	F	240	60.417	28.221	81.421	1.00	41.76	F
ATOM	10668	O	LEU	F	240	59.628	28.528	80.526	1.00	41.30	F
ATOM	10669	N	GLY	F	241	61.704	27.971	81.189	1.00	43.70	F
ATOM	10670	CA	GLY	F	241	62.249	28.098	79.847	1.00	44.79	F
ATOM	10671	C	GLY	F	241	62.505	29.567	79.520	1.00	46.23	F
ATOM	10672	O	GLY	F	241	62.859	30.351	80.398	1.00	48.46	F
ATOM	10673	N	ALA	F	242	62.329	29.953	78.262	1.00	45.42	F
ATOM	10674	CA	ALA	F	242	62.538	31.341	77.883	1.00	44.17	F
ATOM	10675	CB	ALA	F	242	63.034	31.432	76.470	1.00	43.97	F
ATOM	10676	C	ALA	F	242	61.241	32.104	78.016	1.00	43.79	F
ATOM	10677	O	ALA	F	242	60.203	31.675	77.521	1.00	44.88	F
ATOM	10678	N	VAL	F	243	61.305	33.234	78.704	1.00	43.78	F
ATOM	10679	CA	VAL	F	243	60.136	34.072	78.899	1.00	44.98	F
ATOM	10680	CB	VAL	F	243	59.861	34.287	80.372	1.00	40.29	F
ATOM	10681	CG1	VAL	F	243	58.634	35.158	80.547	1.00	43.32	F

ATOM	10682	CG2	VAL	F	243	59.672	32.960	81.035	1.00	46.37	F
ATOM	10683	C	VAL	F	243	60.447	35.414	78.260	1.00	47.99	F
ATOM	10684	O	VAL	F	243	61.485	36.013	78.546	1.00	52.18	F
ATOM	10685	N	GLY	F	244	59.549	35.877	77.397	1.00	43.01	F
ATOM	10686	CA	GLY	F	244	59.771	37.127	76.718	1.00	42.00	F
ATOM	10687	C	GLY	F	244	58.705	38.175	76.927	1.00	48.13	F
ATOM	10688	O	GLY	F	244	58.173	38.342	78.032	1.00	47.71	F
ATOM	10689	N	THR	F	245	58.389	38.883	75.846	1.00	53.38	F
ATOM	10690	CA	THR	F	245	57.414	39.968	75.885	1.00	56.00	F
ATOM	10691	CB	THR	F	245	57.529	40.840	74.612	1.00	56.51	F
ATOM	10692	OG1	THR	F	245	57.498	40.006	73.445	1.00	60.63	F
ATOM	10693	CG2	THR	F	245	58.846	41.613	74.637	1.00	53.46	F
ATOM	10694	C	THR	F	245	55.986	39.507	76.098	1.00	55.75	F
ATOM	10695	O	THR	F	245	55.160	40.255	76.632	1.00	59.16	F
ATOM	10696	N	SER	F	246	55.697	38.274	75.693	1.00	55.15	F
ATOM	10697	CA	SER	F	246	54.362	37.715	75.881	1.00	54.53	F
ATOM	10698	CB	SER	F	246	54.034	36.691	74.791	1.00	53.65	F
ATOM	10699	OG	SER	F	246	54.354	37.185	73.507	1.00	61.51	F
ATOM	10700	C	SER	F	246	54.367	37.016	77.238	1.00	50.99	F
ATOM	10701	O	SER	F	246	55.198	36.133	77.484	1.00	48.78	F
ATOM	10702	N	ALA	F	247	53.449	37.416	78.110	1.00	46.88	F
ATOM	10703	CA	ALA	F	247	53.343	36.825	79.433	1.00	45.75	F
ATOM	10704	CB	ALA	F	247	52.145	37.407	80.157	1.00	45.24	F
ATOM	10705	C	ALA	F	247	53.229	35.300	79.383	1.00	45.81	F
ATOM	10706	O	ALA	F	247	52.690	34.725	78.443	1.00	48.45	F
ATOM	10707	N	VAL	F	248	53.757	34.650	80.405	1.00	44.02	F
ATOM	10708	CA	VAL	F	248	53.707	33.212	80.499	1.00	44.23	F
ATOM	10709	CB	VAL	F	248	55.114	32.588	80.519	1.00	45.20	F
ATOM	10710	CG1	VAL	F	248	55.022	31.114	80.873	1.00	36.97	F
ATOM	10711	CG2	VAL	F	248	55.781	32.767	79.169	1.00	41.96	F
ATOM	10712	C	VAL	F	248	53.023	32.885	81.799	1.00	46.78	F
ATOM	10713	O	VAL	F	248	53.447	33.344	82.862	1.00	48.51	F
ATOM	10714	N	SER	F	249	51.960	32.093	81.706	1.00	47.54	F
ATOM	10715	CA	SER	F	249	51.194	31.677	82.877	1.00	46.17	F
ATOM	10716	CB	SER	F	249	49.789	31.257	82.446	1.00	42.37	F
ATOM	10717	OG	SER	F	249	48.963	30.970	83.552	1.00	41.35	F
ATOM	10718	C	SER	F	249	51.907	30.500	83.520	1.00	44.65	F
ATOM	10719	O	SER	F	249	52.313	29.580	82.823	1.00	44.96	F
ATOM	10720	N	LEU	F	250	52.087	30.530	84.838	1.00	46.06	F
ATOM	10721	CA	LEU	F	250	52.741	29.403	85.516	1.00	46.48	F
ATOM	10722	CB	LEU	F	250	53.173	29.780	86.937	1.00	46.58	F
ATOM	10723	CG	LEU	F	250	54.096	30.989	87.130	1.00	51.31	F
ATOM	10724	CD1	LEU	F	250	54.652	30.952	88.555	1.00	48.57	F
ATOM	10725	CD2	LEU	F	250	55.239	30.968	86.110	1.00	48.38	F
ATOM	10726	C	LEU	F	250	51.751	28.232	85.581	1.00	44.34	F
ATOM	10727	O	LEU	F	250	52.131	27.092	85.845	1.00	39.78	F
ATOM	10728	N	GLY	F	251	50.479	28.535	85.325	1.00	40.41	F
ATOM	10729	CA	GLY	F	251	49.453	27.518	85.352	1.00	40.77	F
ATOM	10730	C	GLY	F	251	49.313	26.925	86.733	1.00	40.95	F
ATOM	10731	O	GLY	F	251	49.330	25.698	86.904	1.00	44.42	F
ATOM	10732	N	LEU	F	252	49.165	27.804	87.715	1.00	35.39	F
ATOM	10733	CA	LEU	F	252	49.046	27.391	89.100	1.00	37.43	F
ATOM	10734	CB	LEU	F	252	49.734	28.411	90.013	1.00	34.93	F
ATOM	10735	CG	LEU	F	252	51.246	28.607	89.896	1.00	33.59	F
ATOM	10736	CD1	LEU	F	252	51.638	29.779	90.773	1.00	30.61	F
ATOM	10737	CD2	LEU	F	252	51.988	27.344	90.297	1.00	27.37	F
ATOM	10738	C	LEU	F	252	47.613	27.232	89.571	1.00	39.19	F
ATOM	10739	O	LEU	F	252	46.717	27.937	89.125	1.00	41.97	F

ATOM	10740	N	THR	F	253	47.408	26.292	90.482	1.00	38.95	F
ATOM	10741	CA	THR	F	253	46.102	26.071	91.082	1.00	40.00	F
ATOM	10742	CB	THR	F	253	45.369	24.867	90.478	1.00	42.89	F
ATOM	10743	OG1	THR	F	253	44.697	25.267	89.281	1.00	49.54	F
ATOM	10744	CG2	THR	F	253	44.359	24.314	91.458	1.00	33.29	F
ATOM	10745	C	THR	F	253	46.329	25.779	92.549	1.00	40.67	F
ATOM	10746	O	THR	F	253	47.237	25.005	92.905	1.00	36.91	F
ATOM	10747	N	ALA	F	254	45.521	26.416	93.393	1.00	37.89	F
ATOM	10748	CA	ALA	F	254	45.600	26.189	94.824	1.00	38.62	F
ATOM	10749	CB	ALA	F	254	45.124	27.427	95.590	1.00	33.12	F
ATOM	10750	C	ALA	F	254	44.690	24.989	95.117	1.00	42.64	F
ATOM	10751	O	ALA	F	254	43.561	24.907	94.614	1.00	45.36	F
ATOM	10752	N	ASN	F	255	45.189	24.058	95.919	1.00	41.18	F
ATOM	10753	CA	ASN	F	255	44.435	22.863	96.275	1.00	38.17	F
ATOM	10754	CB	ASN	F	255	45.064	21.632	95.632	1.00	35.34	F
ATOM	10755	CG	ASN	F	255	45.160	21.742	94.155	1.00	30.32	F
ATOM	10756	OD1	ASN	F	255	44.319	21.230	93.434	1.00	37.05	F
ATOM	10757	ND2	ASN	F	255	46.191	22.413	93.683	1.00	39.65	F
ATOM	10758	C	ASN	F	255	44.498	22.644	97.763	1.00	36.06	F
ATOM	10759	O	ASN	F	255	45.490	22.992	98.393	1.00	42.17	F
ATOM	10760	N	TYR	F	256	43.452	22.063	98.331	1.00	35.57	F
ATOM	10761	CA	TYR	F	256	43.485	21.726	99.748	1.00	31.63	F
ATOM	10762	CB	TYR	F	256	42.091	21.713	100.367	1.00	26.70	F
ATOM	10763	CG	TYR	F	256	41.396	23.046	100.493	1.00	28.19	F
ATOM	10764	CD1	TYR	F	256	40.375	23.408	99.609	1.00	30.12	F
ATOM	10765	CE1	TYR	F	256	39.656	24.594	99.771	1.00	31.72	F
ATOM	10766	CD2	TYR	F	256	41.695	23.910	101.540	1.00	29.54	F
ATOM	10767	CE2	TYR	F	256	40.989	25.106	101.714	1.00	33.61	F
ATOM	10768	CZ	TYR	F	256	39.968	25.444	100.832	1.00	36.51	F
ATOM	10769	OH	TYR	F	256	39.255	26.613	101.018	1.00	33.10	F
ATOM	10770	C	TYR	F	256	44.043	20.299	99.798	1.00	31.07	F
ATOM	10771	O	TYR	F	256	43.708	19.457	98.960	1.00	33.53	F
ATOM	10772	N	ALA	F	257	44.915	20.033	100.756	1.00	32.69	F
ATOM	10773	CA	ALA	F	257	45.475	18.699	100.928	1.00	34.35	F
ATOM	10774	CB	ALA	F	257	46.936	18.686	100.555	1.00	35.66	F
ATOM	10775	C	ALA	F	257	45.308	18.398	102.404	1.00	39.13	F
ATOM	10776	O	ALA	F	257	45.187	19.311	103.220	1.00	40.14	F
ATOM	10777	N	ARG	F	258	45.288	17.129	102.764	1.00	45.68	F
ATOM	10778	CA	ARG	F	258	45.125	16.792	104.170	1.00	52.13	F
ATOM	10779	CB	ARG	F	258	44.226	15.562	104.332	1.00	55.74	F
ATOM	10780	CG	ARG	F	258	42.780	15.766	103.930	1.00	57.90	F
ATOM	10781	CD	ARG	F	258	42.041	14.454	104.041	1.00	67.74	F
ATOM	10782	NE	ARG	F	258	42.081	13.937	105.407	1.00	77.15	F
ATOM	10783	CZ	ARG	F	258	41.859	12.667	105.729	1.00	80.11	F
ATOM	10784	NH1	ARG	F	258	41.587	11.784	104.780	1.00	86.14	F
ATOM	10785	NH2	ARG	F	258	41.900	12.281	106.998	1.00	80.81	F
ATOM	10786	C	ARG	F	258	46.473	16.526	104.810	1.00	53.94	F
ATOM	10787	O	ARG	F	258	47.312	15.803	104.252	1.00	55.27	F
ATOM	10788	N	THR	F	259	46.664	17.111	105.988	1.00	54.24	F
ATOM	10789	CA	THR	F	259	47.900	16.966	106.739	1.00	56.63	F
ATOM	10790	CB	THR	F	259	48.181	18.208	107.557	1.00	55.58	F
ATOM	10791	OG1	THR	F	259	47.003	18.574	108.280	1.00	61.23	F
ATOM	10792	CG2	THR	F	259	48.591	19.352	106.658	1.00	61.12	F
ATOM	10793	C	THR	F	259	47.813	15.804	107.696	1.00	60.70	F
ATOM	10794	O	THR	F	259	48.250	14.696	107.383	1.00	60.49	F
ATOM	10795	N	GLY	F	260	47.230	16.080	108.862	1.00	67.47	F
ATOM	10796	CA	GLY	F	260	47.067	15.080	109.903	1.00	69.73	F
ATOM	10797	C	GLY	F	260	46.022	14.032	109.589	1.00	70.13	F

ATOM	10798	O	GLY	F	260	46.193	13.234	108.666	1.00	68.47	F
ATOM	10799	N	GLY	F	261	44.935	14.028	110.354	1.00	73.81	F
ATOM	10800	CA	GLY	F	261	43.886	13.046	110.122	1.00	76.54	F
ATOM	10801	C	GLY	F	261	42.486	13.633	110.075	1.00	77.80	F
ATOM	10802	O	GLY	F	261	41.933	13.865	108.999	1.00	79.08	F
ATOM	10803	N	GLN	F	262	41.909	13.877	111.244	1.00	78.34	F
ATOM	10804	CA	GLN	F	262	40.568	14.437	111.333	1.00	79.18	F
ATOM	10805	CB	GLN	F	262	40.089	14.399	112.784	1.00	86.21	F
ATOM	10806	CG	GLN	F	262	38.580	14.467	112.986	1.00	93.67	F
ATOM	10807	CD	GLN	F	262	37.893	13.151	112.661	1.00	97.05	F
ATOM	10808	OE1	GLN	F	262	36.869	12.808	113.259	1.00	99.19	F
ATOM	10809	NE2	GLN	F	262	38.450	12.410	111.702	1.00	99.13	F
ATOM	10810	C	GLN	F	262	40.541	15.881	110.841	1.00	74.98	F
ATOM	10811	O	GLN	F	262	41.211	16.749	111.409	1.00	75.27	F
ATOM	10812	N	VAL	F	263	39.772	16.133	109.786	1.00	68.31	F
ATOM	10813	CA	VAL	F	263	39.646	17.479	109.255	1.00	63.60	F
ATOM	10814	CB	VAL	F	263	39.168	17.457	107.791	1.00	59.54	F
ATOM	10815	CG1	VAL	F	263	38.959	18.869	107.295	1.00	55.47	F
ATOM	10816	CG2	VAL	F	263	40.184	16.733	106.913	1.00	54.81	F
ATOM	10817	C	VAL	F	263	38.625	18.191	110.135	1.00	62.86	F
ATOM	10818	O	VAL	F	263	37.719	17.567	110.661	1.00	66.34	F
ATOM	10819	N	THR	F	264	38.756	19.495	110.292	1.00	60.50	F
ATOM	10820	CA	THR	F	264	37.844	20.213	111.162	1.00	61.89	F
ATOM	10821	CB	THR	F	264	38.511	20.386	112.508	1.00	58.11	F
ATOM	10822	OG1	THR	F	264	38.921	19.097	112.974	1.00	58.44	F
ATOM	10823	CG2	THR	F	264	37.589	21.043	113.499	1.00	46.60	F
ATOM	10824	C	THR	F	264	37.423	21.573	110.620	1.00	68.36	F
ATOM	10825	O	THR	F	264	38.207	22.263	109.979	1.00	72.53	F
ATOM	10826	N	ALA	F	265	36.182	21.959	110.888	1.00	71.65	F
ATOM	10827	CA	ALA	F	265	35.662	23.232	110.399	1.00	73.50	F
ATOM	10828	CB	ALA	F	265	34.216	23.408	110.829	1.00	76.18	F
ATOM	10829	C	ALA	F	265	36.481	24.420	110.867	1.00	74.06	F
ATOM	10830	O	ALA	F	265	37.170	24.354	111.886	1.00	74.75	F
ATOM	10831	N	GLY	F	266	36.388	25.510	110.109	1.00	75.31	F
ATOM	10832	CA	GLY	F	266	37.115	26.722	110.440	1.00	74.64	F
ATOM	10833	C	GLY	F	266	37.791	27.340	109.232	1.00	72.28	F
ATOM	10834	O	GLY	F	266	37.603	26.884	108.100	1.00	72.09	F
ATOM	10835	N	ASN	F	267	38.581	28.380	109.468	1.00	70.04	F
ATOM	10836	CA	ASN	F	267	39.289	29.042	108.379	1.00	69.39	F
ATOM	10837	CB	ASN	F	267	39.525	30.519	108.708	1.00	75.06	F
ATOM	10838	CG	ASN	F	267	38.280	31.360	108.526	1.00	80.89	F
ATOM	10839	OD1	ASN	F	267	38.308	32.579	108.701	1.00	81.84	F
ATOM	10840	ND2	ASN	F	267	37.178	30.712	108.164	1.00	83.08	F
ATOM	10841	C	ASN	F	267	40.628	28.385	108.034	1.00	64.91	F
ATOM	10842	O	ASN	F	267	41.270	27.742	108.873	1.00	58.72	F
ATOM	10843	N	VAL	F	268	41.026	28.544	106.776	1.00	61.00	F
ATOM	10844	CA	VAL	F	268	42.282	28.008	106.281	1.00	58.63	F
ATOM	10845	CB	VAL	F	268	42.053	26.814	105.349	1.00	58.77	F
ATOM	10846	CG1	VAL	F	268	43.380	26.313	104.803	1.00	56.39	F
ATOM	10847	CG2	VAL	F	268	41.352	25.708	106.105	1.00	59.98	F
ATOM	10848	C	VAL	F	268	42.966	29.120	105.503	1.00	57.69	F
ATOM	10849	O	VAL	F	268	42.519	29.508	104.425	1.00	57.03	F
ATOM	10850	N	GLN	F	269	44.038	29.652	106.071	1.00	57.70	F
ATOM	10851	CA	GLN	F	269	44.781	30.723	105.428	1.00	61.18	F
ATOM	10852	CB	GLN	F	269	44.650	32.010	106.247	1.00	61.56	F
ATOM	10853	CG	GLN	F	269	43.340	32.762	106.038	1.00	65.55	F
ATOM	10854	CD	GLN	F	269	43.146	33.894	107.040	1.00	73.01	F
ATOM	10855	OE1	GLN	F	269	44.053	34.692	107.281	1.00	79.30	F

ATOM	10856	NE2	GLN	F	269	41.955	33.970	107.624	1.00	75.63	F
ATOM	10857	C	GLN	F	269	46.247	30.327	105.277	1.00	63.76	F
ATOM	10858	O	GLN	F	269	46.768	29.512	106.045	1.00	64.51	F
ATOM	10859	N	SER	F	270	46.915	30.888	104.275	1.00	64.96	F
ATOM	10860	CA	SER	F	270	48.315	30.560	104.060	1.00	63.37	F
ATOM	10861	CB	SER	F	270	48.438	29.163	103.460	1.00	66.20	F
ATOM	10862	OG	SER	F	270	49.802	28.820	103.307	1.00	76.25	F
ATOM	10863	C	SER	F	270	49.090	31.548	103.199	1.00	61.03	F
ATOM	10864	O	SER	F	270	48.545	32.184	102.287	1.00	61.55	F
ATOM	10865	N	ILE	F	271	50.379	31.660	103.513	1.00	58.46	F
ATOM	10866	CA	ILE	F	271	51.307	32.550	102.818	1.00	52.59	F
ATOM	10867	CB	ILE	F	271	51.852	33.594	103.782	1.00	56.01	F
ATOM	10868	CG2	ILE	F	271	50.882	34.777	103.857	1.00	55.78	F
ATOM	10869	CG1	ILE	F	271	52.086	32.939	105.150	1.00	56.94	F
ATOM	10870	CD1	ILE	F	271	52.270	33.918	106.308	1.00	65.79	F
ATOM	10871	C	ILE	F	271	52.449	31.731	102.233	1.00	47.20	F
ATOM	10872	O	ILE	F	271	53.143	31.004	102.943	1.00	46.54	F
ATOM	10873	N	ILE	F	272	52.618	31.845	100.923	1.00	42.32	F
ATOM	10874	CA	ILE	F	272	53.637	31.107	100.195	1.00	36.56	F
ATOM	10875	CB	ILE	F	272	52.992	30.167	99.165	1.00	33.32	F
ATOM	10876	CG2	ILE	F	272	54.049	29.359	98.445	1.00	35.96	F
ATOM	10877	CG1	ILE	F	272	52.028	29.216	99.872	1.00	48.40	F
ATOM	10878	CD1	ILE	F	272	51.255	28.298	98.921	1.00	51.81	F
ATOM	10879	C	ILE	F	272	54.581	32.036	99.447	1.00	35.18	F
ATOM	10880	O	ILE	F	272	54.172	33.043	98.872	1.00	32.15	F
ATOM	10881	N	GLY	F	273	55.855	31.694	99.440	1.00	31.36	F
ATOM	10882	CA	GLY	F	273	56.772	32.527	98.714	1.00	35.39	F
ATOM	10883	C	GLY	F	273	57.048	31.906	97.369	1.00	37.95	F
ATOM	10884	O	GLY	F	273	57.241	30.686	97.274	1.00	37.51	F
ATOM	10885	N	VAL	F	274	57.025	32.734	96.325	1.00	35.95	F
ATOM	10886	CA	VAL	F	274	57.336	32.260	94.989	1.00	32.52	F
ATOM	10887	CB	VAL	F	274	56.228	32.585	93.971	1.00	32.53	F
ATOM	10888	CG1	VAL	F	274	56.417	31.723	92.725	1.00	29.70	F
ATOM	10889	CG2	VAL	F	274	54.870	32.306	94.558	1.00	32.57	F
ATOM	10890	C	VAL	F	274	58.606	33.003	94.610	1.00	33.04	F
ATOM	10891	O	VAL	F	274	58.606	34.229	94.502	1.00	30.75	F
ATOM	10892	N	THR	F	275	59.693	32.255	94.435	1.00	34.34	F
ATOM	10893	CA	THR	F	275	60.986	32.842	94.106	1.00	36.22	F
ATOM	10894	CB	THR	F	275	62.081	32.328	95.074	1.00	37.66	F
ATOM	10895	OG1	THR	F	275	61.829	32.853	96.378	1.00	37.50	F
ATOM	10896	CG2	THR	F	275	63.482	32.749	94.615	1.00	38.43	F
ATOM	10897	C	THR	F	275	61.441	32.567	92.685	1.00	35.77	F
ATOM	10898	O	THR	F	275	61.757	31.428	92.336	1.00	37.95	F
ATOM	10899	N	PHE	F	276	61.485	33.624	91.878	1.00	33.31	F
ATOM	10900	CA	PHE	F	276	61.929	33.521	90.497	1.00	32.51	F
ATOM	10901	CB	PHE	F	276	61.296	34.633	89.646	1.00	28.98	F
ATOM	10902	CG	PHE	F	276	59.842	34.428	89.385	1.00	31.36	F
ATOM	10903	CD1	PHE	F	276	58.894	34.810	90.322	1.00	30.68	F
ATOM	10904	CD2	PHE	F	276	59.417	33.783	88.220	1.00	35.48	F
ATOM	10905	CE1	PHE	F	276	57.528	34.552	90.102	1.00	36.63	F
ATOM	10906	CE2	PHE	F	276	58.053	33.520	87.988	1.00	32.00	F
ATOM	10907	CZ	PHE	F	276	57.111	33.905	88.930	1.00	33.03	F
ATOM	10908	C	PHE	F	276	63.454	33.606	90.432	1.00	30.40	F
ATOM	10909	O	PHE	F	276	64.050	34.588	90.866	1.00	30.27	F
ATOM	10910	N	VAL	F	277	64.084	32.572	89.892	1.00	28.50	F
ATOM	10911	CA	VAL	F	277	65.533	32.570	89.795	1.00	30.80	F
ATOM	10912	CB	VAL	F	277	66.103	31.194	90.106	1.00	34.79	F
ATOM	10913	CG1	VAL	F	277	67.601	31.278	90.192	1.00	33.14	F

ATOM	10914	CG2	VAL	F	277	65.511	30.671	91.413	1.00	33.27	F
ATOM	10915	C	VAL	F	277	66.012	32.984	88.419	1.00	29.40	F
ATOM	10916	O	VAL	F	277	65.607	32.407	87.422	1.00	28.01	F
ATOM	10917	N	TYR	F	278	66.885	33.989	88.387	1.00	29.92	F
ATOM	10918	CA	TYR	F	278	67.429	34.532	87.151	1.00	25.50	F
ATOM	10919	CB	TYR	F	278	67.616	36.033	87.267	1.00	23.10	F
ATOM	10920	CG	TYR	F	278	66.321	36.771	87.347	1.00	19.15	F
ATOM	10921	CD1	TYR	F	278	65.557	36.740	88.508	1.00	17.27	F
ATOM	10922	CE1	TYR	F	278	64.316	37.399	88.576	1.00	24.80	F
ATOM	10923	CD2	TYR	F	278	65.834	37.476	86.243	1.00	15.31	F
ATOM	10924	CE2	TYR	F	278	64.604	38.136	86.295	1.00	26.27	F
ATOM	10925	CZ	TYR	F	278	63.844	38.094	87.474	1.00	30.13	F
ATOM	10926	OH	TYR	F	278	62.632	38.753	87.559	1.00	32.01	F
ATOM	10927	C	TYR	F	278	68.743	33.933	86.755	1.00	30.16	F
ATOM	10928	O	TYR	F	278	69.654	33.798	87.580	1.00	29.51	F
ATOM	10929	N	GLN	F	279	68.842	33.582	85.477	1.00	31.65	F
ATOM	10930	CA	GLN	F	279	70.075	33.000	84.964	1.00	33.84	F
ATOM	10931	CB	GLN	F	279	69.806	32.255	83.659	1.00	27.95	F
ATOM	10932	CG	GLN	F	279	71.038	31.569	83.108	1.00	33.59	F
ATOM	10933	CD	GLN	F	279	70.860	31.019	81.693	1.00	39.62	F
ATOM	10934	OE1	GLN	F	279	71.627	30.144	81.273	1.00	45.12	F
ATOM	10935	NE2	GLN	F	279	69.865	31.538	80.946	1.00	30.33	F
ATOM	10936	C	GLN	F	279	71.182	34.057	84.765	1.00	34.20	F
ATOM	10937	O	GLN	F	279	72.343	33.736	85.094	1.00	35.06	F
ATOM	10938	OXT	GLN	F	279	70.894	35.181	84.279	1.00	29.74	F
ATOM	10939	C	GLY	G	1	93.507	124.937	144.425	1.00	49.59	G
ATOM	10940	O	GLY	G	1	92.353	125.122	144.054	1.00	54.21	G
ATOM	10941	N	GLY	G	1	93.883	122.629	145.020	1.00	51.22	G
ATOM	10942	CA	GLY	G	1	94.227	123.671	144.025	1.00	50.66	G
ATOM	10943	N	VAL	G	2	94.166	125.794	145.201	1.00	42.76	G
ATOM	10944	CA	VAL	G	2	93.548	127.036	145.634	1.00	34.54	G
ATOM	10945	CB	VAL	G	2	93.700	127.239	147.154	1.00	32.06	G
ATOM	10946	CG1	VAL	G	2	93.217	128.615	147.527	1.00	31.89	G
ATOM	10947	CG2	VAL	G	2	92.884	126.187	147.915	1.00	25.68	G
ATOM	10948	C	VAL	G	2	94.195	128.184	144.881	1.00	35.93	G
ATOM	10949	O	VAL	G	2	95.418	128.300	144.844	1.00	38.69	G
ATOM	10950	N	ALA	G	3	93.375	129.030	144.262	1.00	38.04	G
ATOM	10951	CA	ALA	G	3	93.904	130.145	143.480	1.00	35.28	G
ATOM	10952	CB	ALA	G	3	93.786	129.840	142.003	1.00	26.55	G
ATOM	10953	C	ALA	G	3	93.281	131.497	143.761	1.00	34.01	G
ATOM	10954	O	ALA	G	3	92.087	131.607	144.007	1.00	37.60	G
ATOM	10955	N	LEU	G	4	94.113	132.528	143.726	1.00	31.84	G
ATOM	10956	CA	LEU	G	4	93.647	133.878	143.950	1.00	29.56	G
ATOM	10957	CB	LEU	G	4	94.808	134.777	144.361	1.00	28.72	G
ATOM	10958	CG	LEU	G	4	95.556	134.394	145.633	1.00	24.06	G
ATOM	10959	CD1	LEU	G	4	96.512	135.528	146.014	1.00	18.07	G
ATOM	10960	CD2	LEU	G	4	94.559	134.127	146.733	1.00	24.42	G
ATOM	10961	C	LEU	G	4	93.062	134.376	142.637	1.00	33.04	G
ATOM	10962	O	LEU	G	4	93.490	133.935	141.553	1.00	32.52	G
ATOM	10963	N	GLY	G	5	92.098	135.295	142.740	1.00	32.35	G
ATOM	10964	CA	GLY	G	5	91.447	135.865	141.569	1.00	26.35	G
ATOM	10965	C	GLY	G	5	92.167	137.038	140.931	1.00	27.80	G
ATOM	10966	O	GLY	G	5	91.667	137.614	139.984	1.00	35.64	G
ATOM	10967	N	ALA	G	6	93.333	137.407	141.444	1.00	29.26	G
ATOM	10968	CA	ALA	G	6	94.109	138.506	140.871	1.00	30.77	G
ATOM	10969	CB	ALA	G	6	93.750	139.805	141.535	1.00	26.28	G
ATOM	10970	C	ALA	G	6	95.582	138.216	141.100	1.00	32.15	G
ATOM	10971	O	ALA	G	6	95.925	137.427	141.974	1.00	41.39	G

ATOM	10972	N	THR	G	7	96.455	138.849	140.334	1.00	26.01	G
ATOM	10973	CA	THR	G	7	97.877	138.631	140.499	1.00	22.97	G
ATOM	10974	CB	THR	G	7	98.593	138.400	139.149	1.00	22.01	G
ATOM	10975	OG1	THR	G	7	98.590	139.611	138.377	1.00	16.11	G
ATOM	10976	CG2	THR	G	7	97.910	137.266	138.372	1.00	19.03	G
ATOM	10977	C	THR	G	7	98.483	139.836	141.168	1.00	26.99	G
ATOM	10978	O	THR	G	7	99.703	139.989	141.195	1.00	29.62	G
ATOM	10979	N	ARG	G	8	97.622	140.705	141.687	1.00	28.82	G
ATOM	10980	CA	ARG	G	8	98.050	141.920	142.391	1.00	27.08	G
ATOM	10981	CB	ARG	G	8	98.826	142.869	141.482	1.00	21.06	G
ATOM	10982	CG	ARG	G	8	97.934	143.690	140.548	1.00	28.33	G
ATOM	10983	CD	ARG	G	8	98.260	143.469	139.084	1.00	24.16	G
ATOM	10984	NE	ARG	G	8	99.658	143.785	138.774	1.00	25.35	G
ATOM	10985	CZ	ARG	G	8	100.601	142.866	138.576	1.00	24.04	G
ATOM	10986	NH1	ARG	G	8	101.839	143.239	138.303	1.00	20.27	G
ATOM	10987	NH2	ARG	G	8	100.302	141.570	138.639	1.00	12.36	G
ATOM	10988	C	ARG	G	8	96.808	142.643	142.903	1.00	28.62	G
ATOM	10989	O	ARG	G	8	95.681	142.343	142.512	1.00	29.74	G
ATOM	10990	N	VAL	G	9	97.025	143.606	143.778	1.00	28.42	G
ATOM	10991	CA	VAL	G	9	95.936	144.342	144.363	1.00	26.23	G
ATOM	10992	CB	VAL	G	9	95.593	143.787	145.728	1.00	23.29	G
ATOM	10993	CG1	VAL	G	9	94.640	144.707	146.424	1.00	29.93	G
ATOM	10994	CG2	VAL	G	9	95.001	142.419	145.583	1.00	20.37	G
ATOM	10995	C	VAL	G	9	96.342	145.787	144.519	1.00	29.51	G
ATOM	10996	O	VAL	G	9	97.467	146.103	144.924	1.00	27.95	G
ATOM	10997	N	ILE	G	10	95.414	146.662	144.162	1.00	30.31	G
ATOM	10998	CA	ILE	G	10	95.630	148.081	144.277	1.00	31.68	G
ATOM	10999	CB	ILE	G	10	95.223	148.802	143.008	1.00	26.83	G
ATOM	11000	CG2	ILE	G	10	95.427	150.299	143.170	1.00	28.47	G
ATOM	11001	CG1	ILE	G	10	96.089	148.298	141.861	1.00	29.25	G
ATOM	11002	CD1	ILE	G	10	97.569	148.601	142.017	1.00	19.98	G
ATOM	11003	C	ILE	G	10	94.769	148.556	145.420	1.00	36.67	G
ATOM	11004	O	ILE	G	10	93.549	148.431	145.379	1.00	35.86	G
ATOM	11005	N	TYR	G	11	95.409	149.073	146.459	1.00	38.74	G
ATOM	11006	CA	TYR	G	11	94.670	149.571	147.603	1.00	38.93	G
ATOM	11007	CB	TYR	G	11	95.358	149.189	148.904	1.00	36.10	G
ATOM	11008	CG	TYR	G	11	94.418	149.203	150.077	1.00	41.99	G
ATOM	11009	CD1	TYR	G	11	93.778	148.036	150.485	1.00	45.69	G
ATOM	11010	CE1	TYR	G	11	92.868	148.036	151.534	1.00	45.81	G
ATOM	11011	CD2	TYR	G	11	94.127	150.384	150.754	1.00	40.10	G
ATOM	11012	CE2	TYR	G	11	93.210	150.396	151.811	1.00	43.85	G
ATOM	11013	CZ	TYR	G	11	92.582	149.213	152.193	1.00	44.06	G
ATOM	11014	OH	TYR	G	11	91.652	149.195	153.209	1.00	41.27	G
ATOM	11015	C	TYR	G	11	94.620	151.087	147.497	1.00	38.64	G
ATOM	11016	O	TYR	G	11	95.637	151.754	147.683	1.00	31.44	G
ATOM	11017	N	PRO	G	12	93.434	151.643	147.171	1.00	41.91	G
ATOM	11018	CD	PRO	G	12	92.229	150.893	146.775	1.00	42.99	G
ATOM	11019	CA	PRO	G	12	93.203	153.088	147.030	1.00	39.70	G
ATOM	11020	CB	PRO	G	12	91.806	153.164	146.417	1.00	38.09	G
ATOM	11021	CG	PRO	G	12	91.618	151.812	145.770	1.00	38.97	G
ATOM	11022	C	PRO	G	12	93.236	153.735	148.398	1.00	37.88	G
ATOM	11023	O	PRO	G	12	92.437	153.381	149.264	1.00	38.22	G
ATOM	11024	N	ALA	G	13	94.158	154.665	148.608	1.00	41.28	G
ATOM	11025	CA	ALA	G	13	94.242	155.323	149.906	1.00	47.10	G
ATOM	11026	CB	ALA	G	13	95.297	156.415	149.883	1.00	47.71	G
ATOM	11027	C	ALA	G	13	92.870	155.905	150.250	1.00	50.57	G
ATOM	11028	O	ALA	G	13	92.265	156.619	149.446	1.00	52.67	G
ATOM	11029	N	GLY	G	14	92.370	155.571	151.436	1.00	51.62	G

ATOM	11030	CA	GLY	G	14	91.076	156.066	151.847	1.00	52.12	G
ATOM	11031	C	GLY	G	14	90.053	154.955	151.954	1.00	57.62	G
ATOM	11032	O	GLY	G	14	89.298	154.909	152.926	1.00	59.30	G
ATOM	11033	N	GLN	G	15	90.024	154.060	150.964	1.00	58.12	G
ATOM	11034	CA	GLN	G	15	89.076	152.947	150.959	1.00	58.36	G
ATOM	11035	CB	GLN	G	15	89.443	151.933	149.877	1.00	61.76	G
ATOM	11036	CG	GLN	G	15	89.579	152.516	148.483	1.00	68.87	G
ATOM	11037	CD	GLN	G	15	88.312	152.406	147.661	1.00	73.69	G
ATOM	11038	OE1	GLN	G	15	87.235	152.826	148.092	1.00	77.18	G
ATOM	11039	NE2	GLN	G	15	88.434	151.842	146.463	1.00	75.66	G
ATOM	11040	C	GLN	G	15	89.099	152.259	152.312	1.00	60.77	G
ATOM	11041	O	GLN	G	15	90.162	152.029	152.888	1.00	61.27	G
ATOM	11042	N	LYS	G	16	87.927	151.935	152.833	1.00	63.32	G
ATOM	11043	CA	LYS	G	16	87.872	151.273	154.122	1.00	66.28	G
ATOM	11044	CB	LYS	G	16	86.437	151.222	154.626	1.00	72.40	G
ATOM	11045	CG	LYS	G	16	86.302	150.720	156.050	1.00	82.60	G
ATOM	11046	CD	LYS	G	16	84.836	150.514	156.438	1.00	91.20	G
ATOM	11047	CE	LYS	G	16	83.944	151.686	155.990	1.00	94.82	G
ATOM	11048	NZ	LYS	G	16	84.414	153.017	156.482	1.00	97.45	G
ATOM	11049	C	LYS	G	16	88.402	149.860	153.967	1.00	66.46	G
ATOM	11050	O	LYS	G	16	88.945	149.290	154.908	1.00	69.21	G
ATOM	11051	N	GLN	G	17	88.255	149.302	152.768	1.00	64.37	G
ATOM	11052	CA	GLN	G	17	88.703	147.938	152.509	1.00	61.37	G
ATOM	11053	CB	GLN	G	17	87.863	146.969	153.334	1.00	61.02	G
ATOM	11054	CG	GLN	G	17	86.390	147.115	153.047	1.00	62.49	G
ATOM	11055	CD	GLN	G	17	85.608	145.851	153.309	1.00	66.57	G
ATOM	11056	OE1	GLN	G	17	85.598	145.332	154.436	1.00	64.08	G
ATOM	11057	NE2	GLN	G	17	84.933	145.344	152.266	1.00	61.13	G
ATOM	11058	C	GLN	G	17	88.618	147.516	151.034	1.00	57.22	G
ATOM	11059	O	GLN	G	17	87.742	147.954	150.297	1.00	57.60	G
ATOM	11060	N	VAL	G	18	89.537	146.654	150.614	1.00	51.47	G
ATOM	11061	CA	VAL	G	18	89.535	146.158	149.253	1.00	46.80	G
ATOM	11062	CB	VAL	G	18	90.850	146.451	148.549	1.00	45.14	G
ATOM	11063	CG1	VAL	G	18	90.842	145.843	147.165	1.00	47.44	G
ATOM	11064	CG2	VAL	G	18	91.047	147.939	148.449	1.00	49.87	G
ATOM	11065	C	VAL	G	18	89.349	144.659	149.368	1.00	47.34	G
ATOM	11066	O	VAL	G	18	89.740	144.058	150.363	1.00	49.98	G
ATOM	11067	N	GLN	G	19	88.749	144.045	148.363	1.00	44.42	G
ATOM	11068	CA	GLN	G	19	88.533	142.623	148.442	1.00	44.55	G
ATOM	11069	CB	GLN	G	19	87.043	142.340	148.531	1.00	50.15	G
ATOM	11070	CG	GLN	G	19	86.213	143.113	147.551	1.00	59.38	G
ATOM	11071	CD	GLN	G	19	84.771	143.194	147.994	1.00	63.19	G
ATOM	11072	OE1	GLN	G	19	84.465	143.799	149.021	1.00	63.63	G
ATOM	11073	NE2	GLN	G	19	83.875	142.575	147.228	1.00	67.29	G
ATOM	11074	C	GLN	G	19	89.169	141.849	147.308	1.00	41.40	G
ATOM	11075	O	GLN	G	19	89.327	142.362	146.208	1.00	37.97	G
ATOM	11076	N	LEU	G	20	89.554	140.613	147.620	1.00	37.57	G
ATOM	11077	CA	LEU	G	20	90.210	139.705	146.699	1.00	34.15	G
ATOM	11078	CB	LEU	G	20	91.664	139.511	147.146	1.00	31.26	G
ATOM	11079	CG	LEU	G	20	92.592	138.600	146.330	1.00	34.22	G
ATOM	11080	CD1	LEU	G	20	92.851	139.221	144.985	1.00	29.34	G
ATOM	11081	CD2	LEU	G	20	93.905	138.394	147.069	1.00	29.62	G
ATOM	11082	C	LEU	G	20	89.453	138.372	146.721	1.00	34.86	G
ATOM	11083	O	LEU	G	20	88.922	137.965	147.751	1.00	36.12	G
ATOM	11084	N	ALA	G	21	89.403	137.692	145.585	1.00	34.72	G
ATOM	11085	CA	ALA	G	21	88.689	136.426	145.505	1.00	32.88	G
ATOM	11086	CB	ALA	G	21	87.916	136.334	144.184	1.00	26.25	G
ATOM	11087	C	ALA	G	21	89.632	135.253	145.614	1.00	33.35	G

ATOM	11088	O	ALA	G	21	90.773	135.305	145.149	1.00	32.09	G
ATOM	11089	N	VAL	G	22	89.129	134.192	146.228	1.00	35.08	G
ATOM	11090	CA	VAL	G	22	89.877	132.964	146.392	1.00	36.72	G
ATOM	11091	CB	VAL	G	22	90.235	132.658	147.843	1.00	35.99	G
ATOM	11092	CG1	VAL	G	22	91.518	131.841	147.887	1.00	31.78	G
ATOM	11093	CG2	VAL	G	22	90.329	133.927	148.631	1.00	37.22	G
ATOM	11094	C	VAL	G	22	88.923	131.885	145.981	1.00	41.77	G
ATOM	11095	O	VAL	G	22	87.744	131.900	146.347	1.00	42.46	G
ATOM	11096	N	THR	G	23	89.444	130.929	145.241	1.00	44.73	G
ATOM	11097	CA	THR	G	23	88.633	129.839	144.789	1.00	46.19	G
ATOM	11098	CB	THR	G	23	88.217	130.078	143.338	1.00	48.88	G
ATOM	11099	OG1	THR	G	23	87.761	128.848	142.763	1.00	61.61	G
ATOM	11100	CG2	THR	G	23	89.379	130.622	142.540	1.00	49.72	G
ATOM	11101	C	THR	G	23	89.442	128.560	144.938	1.00	44.41	G
ATOM	11102	O	THR	G	23	90.636	128.543	144.657	1.00	41.88	G
ATOM	11103	N	ASN	G	24	88.772	127.510	145.408	1.00	44.60	G
ATOM	11104	CA	ASN	G	24	89.358	126.199	145.624	1.00	42.99	G
ATOM	11105	CB	ASN	G	24	89.010	125.728	147.033	1.00	39.25	G
ATOM	11106	CG	ASN	G	24	89.398	124.279	147.280	1.00	47.34	G
ATOM	11107	OD1	ASN	G	24	90.297	123.748	146.627	1.00	45.75	G
ATOM	11108	ND2	ASN	G	24	88.730	123.636	148.242	1.00	42.16	G
ATOM	11109	C	ASN	G	24	88.810	125.221	144.590	1.00	48.64	G
ATOM	11110	O	ASN	G	24	87.621	124.883	144.610	1.00	49.98	G
ATOM	11111	N	ASN	G	25	89.687	124.775	143.693	1.00	52.88	G
ATOM	11112	CA	ASN	G	25	89.349	123.834	142.615	1.00	56.33	G
ATOM	11113	CB	ASN	G	25	90.496	123.745	141.613	1.00	54.97	G
ATOM	11114	CG	ASN	G	25	90.750	125.043	140.906	1.00	54.33	G
ATOM	11115	OD1	ASN	G	25	90.517	126.118	141.457	1.00	59.09	G
ATOM	11116	ND2	ASN	G	25	91.251	124.957	139.682	1.00	56.51	G
ATOM	11117	C	ASN	G	25	89.067	122.418	143.088	1.00	58.74	G
ATOM	11118	O	ASN	G	25	88.026	121.844	142.789	1.00	62.14	G
ATOM	11119	N	ASP	G	26	90.024	121.856	143.810	1.00	59.99	G
ATOM	11120	CA	ASP	G	26	89.920	120.499	144.312	1.00	62.40	G
ATOM	11121	CB	ASP	G	26	90.944	120.282	145.410	1.00	66.86	G
ATOM	11122	CG	ASP	G	26	92.356	120.433	144.907	1.00	68.64	G
ATOM	11123	OD1	ASP	G	26	93.282	120.337	145.739	1.00	69.08	G
ATOM	11124	OD2	ASP	G	26	92.532	120.650	143.681	1.00	71.06	G
ATOM	11125	C	ASP	G	26	88.554	120.106	144.808	1.00	63.45	G
ATOM	11126	O	ASP	G	26	88.189	120.364	145.950	1.00	63.25	G
ATOM	11127	N	GLU	G	27	87.814	119.451	143.929	1.00	68.53	G
ATOM	11128	CA	GLU	G	27	86.470	118.989	144.223	1.00	72.57	G
ATOM	11129	CB	GLU	G	27	86.000	118.054	143.100	1.00	78.42	G
ATOM	11130	CG	GLU	G	27	85.561	118.811	141.840	1.00	91.01	G
ATOM	11131	CD	GLU	G	27	85.823	118.060	140.541	1.00	96.40	G
ATOM	11132	OE1	GLU	G	27	85.403	116.884	140.424	1.00	100.30	G
ATOM	11133	OE2	GLU	G	27	86.443	118.661	139.633	1.00	100.11	G
ATOM	11134	C	GLU	G	27	86.350	118.301	145.573	1.00	70.36	G
ATOM	11135	O	GLU	G	27	85.265	118.244	146.135	1.00	69.79	G
ATOM	11136	N	ASN	G	28	87.453	117.793	146.109	1.00	69.84	G
ATOM	11137	CA	ASN	G	28	87.365	117.121	147.394	1.00	73.18	G
ATOM	11138	CB	ASN	G	28	86.877	115.680	147.192	1.00	78.29	G
ATOM	11139	CG	ASN	G	28	87.684	114.927	146.145	1.00	81.19	G
ATOM	11140	OD1	ASN	G	28	87.285	113.847	145.700	1.00	78.77	G
ATOM	11141	ND2	ASN	G	28	88.826	115.494	145.747	1.00	81.74	G
ATOM	11142	C	ASN	G	28	88.652	117.142	148.194	1.00	72.80	G
ATOM	11143	O	ASN	G	28	89.566	116.358	147.961	1.00	75.76	G
ATOM	11144	N	SER	G	29	88.692	118.052	149.156	1.00	72.16	G
ATOM	11145	CA	SER	G	29	89.833	118.250	150.043	1.00	70.79	G

ATOM	11146	CB	SER	G	29	91.152	118.220	149.254	1.00	71.27	G
ATOM	11147	OG	SER	G	29	91.178	119.214	148.243	1.00	66.95	G
ATOM	11148	C	SER	G	29	89.631	119.627	150.675	1.00	67.79	G
ATOM	11149	O	SER	G	29	89.607	120.640	149.980	1.00	69.41	G
ATOM	11150	N	THR	G	30	89.463	119.668	151.987	1.00	63.08	G
ATOM	11151	CA	THR	G	30	89.251	120.938	152.648	1.00	59.12	G
ATOM	11152	CB	THR	G	30	88.590	120.729	154.017	1.00	58.48	G
ATOM	11153	OG1	THR	G	30	87.414	119.925	153.859	1.00	59.71	G
ATOM	11154	CG2	THR	G	30	88.177	122.053	154.607	1.00	63.69	G
ATOM	11155	C	THR	G	30	90.575	121.663	152.824	1.00	55.37	G
ATOM	11156	O	THR	G	30	91.640	121.056	152.744	1.00	57.78	G
ATOM	11157	N	TYR	G	31	90.505	122.970	153.038	1.00	52.13	G
ATOM	11158	CA	TYR	G	31	91.696	123.784	153.245	1.00	48.54	G
ATOM	11159	CB	TYR	G	31	92.121	124.462	151.957	1.00	47.48	G
ATOM	11160	CG	TYR	G	31	92.807	123.574	150.964	1.00	50.32	G
ATOM	11161	CD1	TYR	G	31	92.197	123.251	149.749	1.00	49.24	G
ATOM	11162	CE1	TYR	G	31	92.860	122.494	148.801	1.00	53.64	G
ATOM	11163	CD2	TYR	G	31	94.093	123.109	151.202	1.00	51.51	G
ATOM	11164	CE2	TYR	G	31	94.766	122.351	150.257	1.00	55.64	G
ATOM	11165	CZ	TYR	G	31	94.145	122.050	149.060	1.00	55.71	G
ATOM	11166	OH	TYR	G	31	94.822	121.325	148.113	1.00	63.45	G
ATOM	11167	C	TYR	G	31	91.452	124.878	154.269	1.00	47.20	G
ATOM	11168	O	TYR	G	31	90.331	125.352	154.452	1.00	48.53	G
ATOM	11169	N	LEU	G	32	92.513	125.270	154.948	1.00	44.44	G
ATOM	11170	CA	LEU	G	32	92.425	126.341	155.911	1.00	43.25	G
ATOM	11171	CB	LEU	G	32	93.158	125.985	157.202	1.00	51.21	G
ATOM	11172	CG	LEU	G	32	92.357	125.237	158.264	1.00	55.30	G
ATOM	11173	CD1	LEU	G	32	93.297	124.805	159.390	1.00	58.24	G
ATOM	11174	CD2	LEU	G	32	91.240	126.132	158.785	1.00	50.24	G
ATOM	11175	C	LEU	G	32	93.130	127.484	155.219	1.00	44.66	G
ATOM	11176	O	LEU	G	32	94.296	127.371	154.809	1.00	41.65	G
ATOM	11177	N	ILE	G	33	92.410	128.580	155.056	1.00	41.93	G
ATOM	11178	CA	ILE	G	33	92.984	129.733	154.410	1.00	37.18	G
ATOM	11179	CB	ILE	G	33	91.933	130.433	153.548	1.00	37.29	G
ATOM	11180	CG2	ILE	G	33	92.560	131.604	152.794	1.00	39.50	G
ATOM	11181	CG1	ILE	G	33	91.297	129.409	152.601	1.00	36.10	G
ATOM	11182	CD1	ILE	G	33	92.294	128.594	151.802	1.00	31.67	G
ATOM	11183	C	ILE	G	33	93.481	130.661	155.495	1.00	36.25	G
ATOM	11184	O	ILE	G	33	92.737	131.037	156.396	1.00	37.93	G
ATOM	11185	N	GLN	G	34	94.751	131.013	155.405	1.00	34.84	G
ATOM	11186	CA	GLN	G	34	95.378	131.902	156.367	1.00	36.40	G
ATOM	11187	CB	GLN	G	34	96.405	131.124	157.178	1.00	40.40	G
ATOM	11188	CG	GLN	G	34	96.654	131.637	158.560	1.00	39.38	G
ATOM	11189	CD	GLN	G	34	97.576	130.724	159.317	1.00	46.48	G
ATOM	11190	OE1	GLN	G	34	98.746	130.569	158.960	1.00	54.46	G
ATOM	11191	NE2	GLN	G	34	97.057	130.097	160.362	1.00	51.22	G
ATOM	11192	C	GLN	G	34	96.071	132.968	155.531	1.00	36.63	G
ATOM	11193	O	GLN	G	34	96.986	132.666	154.775	1.00	37.55	G
ATOM	11194	N	SER	G	35	95.644	134.216	155.676	1.00	35.41	G
ATOM	11195	CA	SER	G	35	96.208	135.302	154.891	1.00	33.66	G
ATOM	11196	CB	SER	G	35	95.104	135.924	154.036	1.00	39.70	G
ATOM	11197	OG	SER	G	35	94.316	134.914	153.432	1.00	46.24	G
ATOM	11198	C	SER	G	35	96.855	136.395	155.720	1.00	33.13	G
ATOM	11199	O	SER	G	35	96.474	136.624	156.857	1.00	40.90	G
ATOM	11200	N	TRP	G	36	97.828	137.082	155.142	1.00	27.65	G
ATOM	11201	CA	TRP	G	36	98.496	138.174	155.832	1.00	27.41	G
ATOM	11202	CB	TRP	G	36	99.479	137.650	156.882	1.00	19.29	G
ATOM	11203	CG	TRP	G	36	100.729	137.073	156.334	1.00	17.10	G

ATOM	11204	CD2	TRP	G	36	100.916	135.733	155.888	1.00	19.99	G
ATOM	11205	CE2	TRP	G	36	102.245	135.630	155.411	1.00	23.53	G
ATOM	11206	CE3	TRP	G	36	100.090	134.601	155.850	1.00	16.79	G
ATOM	11207	CD1	TRP	G	36	101.912	137.719	156.124	1.00	21.38	G
ATOM	11208	NE1	TRP	G	36	102.833	136.859	155.566	1.00	24.02	G
ATOM	11209	CZ2	TRP	G	36	102.767	134.436	154.896	1.00	17.43	G
ATOM	11210	CZ3	TRP	G	36	100.612	133.405	155.341	1.00	18.74	G
ATOM	11211	CH2	TRP	G	36	101.940	133.336	154.873	1.00	15.50	G
ATOM	11212	C	TRP	G	36	99.225	139.055	154.829	1.00	28.55	G
ATOM	11213	O	TRP	G	36	99.324	138.735	153.648	1.00	28.27	G
ATOM	11214	N	VAL	G	37	99.733	140.176	155.309	1.00	27.67	G
ATOM	11215	CA	VAL	G	37	100.422	141.092	154.440	1.00	26.31	G
ATOM	11216	CB	VAL	G	37	99.554	142.332	154.165	1.00	25.90	G
ATOM	11217	CG1	VAL	G	37	100.293	143.286	153.265	1.00	28.87	G
ATOM	11218	CG2	VAL	G	37	98.254	141.912	153.525	1.00	23.19	G
ATOM	11219	C	VAL	G	37	101.716	141.531	155.078	1.00	26.84	G
ATOM	11220	O	VAL	G	37	101.724	142.029	156.198	1.00	31.15	G
ATOM	11221	N	GLU	G	38	102.809	141.338	154.359	1.00	25.11	G
ATOM	11222	CA	GLU	G	38	104.110	141.743	154.845	1.00	27.79	G
ATOM	11223	CB	GLU	G	38	105.148	140.689	154.487	1.00	26.76	G
ATOM	11224	CG	GLU	G	38	104.821	139.338	155.099	1.00	30.20	G
ATOM	11225	CD	GLU	G	38	105.676	138.245	154.548	1.00	32.19	G
ATOM	11226	OE1	GLU	G	38	106.720	138.602	153.963	1.00	28.22	G
ATOM	11227	OE2	GLU	G	38	105.313	137.047	154.703	1.00	30.85	G
ATOM	11228	C	GLU	G	38	104.419	143.044	154.148	1.00	28.64	G
ATOM	11229	O	GLU	G	38	103.828	143.338	153.114	1.00	29.42	G
ATOM	11230	N	ASN	G	39	105.310	143.844	154.721	1.00	30.40	G
ATOM	11231	CA	ASN	G	39	105.671	145.093	154.076	1.00	30.25	G
ATOM	11232	CB	ASN	G	39	106.086	146.148	155.093	1.00	31.43	G
ATOM	11233	CG	ASN	G	39	107.355	145.784	155.837	1.00	42.39	G
ATOM	11234	OD1	ASN	G	39	108.157	144.962	155.377	1.00	46.84	G
ATOM	11235	ND2	ASN	G	39	107.558	146.415	156.989	1.00	41.89	G
ATOM	11236	C	ASN	G	39	106.819	144.809	153.113	1.00	32.78	G
ATOM	11237	O	ASN	G	39	107.238	143.656	152.949	1.00	28.93	G
ATOM	11238	N	ALA	G	40	107.328	145.867	152.489	1.00	35.34	G
ATOM	11239	CA	ALA	G	40	108.387	145.741	151.507	1.00	35.47	G
ATOM	11240	CB	ALA	G	40	108.821	147.100	151.050	1.00	38.88	G
ATOM	11241	C	ALA	G	40	109.573	144.959	152.014	1.00	38.67	G
ATOM	11242	O	ALA	G	40	110.162	144.181	151.278	1.00	41.53	G
ATOM	11243	N	ASP	G	41	109.934	145.150	153.272	1.00	40.82	G
ATOM	11244	CA	ASP	G	41	111.066	144.422	153.806	1.00	42.57	G
ATOM	11245	CB	ASP	G	41	111.637	145.161	155.001	1.00	46.72	G
ATOM	11246	CG	ASP	G	41	112.305	146.447	154.605	1.00	51.80	G
ATOM	11247	OD1	ASP	G	41	113.147	146.407	153.685	1.00	56.21	G
ATOM	11248	OD2	ASP	G	41	111.996	147.491	155.211	1.00	53.65	G
ATOM	11249	C	ASP	G	41	110.757	142.973	154.176	1.00	43.06	G
ATOM	11250	O	ASP	G	41	111.629	142.246	154.633	1.00	47.28	G
ATOM	11251	N	GLY	G	42	109.521	142.544	153.977	1.00	39.49	G
ATOM	11252	CA	GLY	G	42	109.187	141.173	154.290	1.00	33.03	G
ATOM	11253	C	GLY	G	42	108.735	140.972	155.714	1.00	33.33	G
ATOM	11254	O	GLY	G	42	108.450	139.851	156.111	1.00	34.86	G
ATOM	11255	N	VAL	G	43	108.651	142.035	156.501	1.00	34.26	G
ATOM	11256	CA	VAL	G	43	108.214	141.844	157.872	1.00	35.96	G
ATOM	11257	CB	VAL	G	43	108.994	142.755	158.862	1.00	30.65	G
ATOM	11258	CG1	VAL	G	43	110.129	143.449	158.158	1.00	26.63	G
ATOM	11259	CG2	VAL	G	43	108.064	143.734	159.531	1.00	35.58	G
ATOM	11260	C	VAL	G	43	106.704	142.024	158.052	1.00	39.43	G
ATOM	11261	O	VAL	G	43	106.077	142.904	157.438	1.00	40.00	G

ATOM	11262	N	LYS	G	44	106.125	141.171	158.892	1.00	36.47	G
ATOM	11263	CA	LYS	G	44	104.703	141.228	159.150	1.00	41.05	G
ATOM	11264	CB	LYS	G	44	104.198	139.909	159.757	1.00	43.62	G
ATOM	11265	CG	LYS	G	44	104.370	138.652	158.921	1.00	44.27	G
ATOM	11266	CD	LYS	G	44	105.253	137.650	159.637	1.00	51.11	G
ATOM	11267	CE	LYS	G	44	105.413	136.379	158.839	1.00	53.69	G
ATOM	11268	NZ	LYS	G	44	104.088	135.755	158.625	1.00	61.06	G
ATOM	11269	C	LYS	G	44	104.358	142.360	160.118	1.00	44.95	G
ATOM	11270	O	LYS	G	44	104.218	142.135	161.323	1.00	45.81	G
ATOM	11271	N	ASP	G	45	104.268	143.588	159.626	1.00	45.75	G
ATOM	11272	CA	ASP	G	45	103.841	144.654	160.519	1.00	43.36	G
ATOM	11273	CB	ASP	G	45	104.349	146.015	160.075	1.00	44.84	G
ATOM	11274	CG	ASP	G	45	104.239	146.223	158.590	1.00	40.67	G
ATOM	11275	OD1	ASP	G	45	103.316	145.654	157.971	1.00	39.49	G
ATOM	11276	OD2	ASP	G	45	105.074	146.973	158.055	1.00	33.82	G
ATOM	11277	C	ASP	G	45	102.337	144.574	160.366	1.00	45.75	G
ATOM	11278	O	ASP	G	45	101.830	143.699	159.659	1.00	51.12	G
ATOM	11279	N	GLY	G	46	101.598	145.469	160.986	1.00	45.66	G
ATOM	11280	CA	GLY	G	46	100.160	145.329	160.859	1.00	45.42	G
ATOM	11281	C	GLY	G	46	99.545	146.352	159.952	1.00	46.08	G
ATOM	11282	O	GLY	G	46	98.353	146.641	160.060	1.00	45.90	G
ATOM	11283	N	ARG	G	47	100.357	146.909	159.058	1.00	44.47	G
ATOM	11284	CA	ARG	G	47	99.867	147.922	158.149	1.00	42.13	G
ATOM	11285	CB	ARG	G	47	100.920	148.248	157.109	1.00	47.61	G
ATOM	11286	CG	ARG	G	47	101.558	149.598	157.335	1.00	57.36	G
ATOM	11287	CD	ARG	G	47	102.394	149.620	158.589	1.00	64.35	G
ATOM	11288	NE	ARG	G	47	102.863	150.973	158.865	1.00	76.44	G
ATOM	11289	CZ	ARG	G	47	102.112	151.921	159.420	1.00	84.45	G
ATOM	11290	NH1	ARG	G	47	100.860	151.655	159.765	1.00	88.28	G
ATOM	11291	NH2	ARG	G	47	102.600	153.141	159.623	1.00	87.40	G
ATOM	11292	C	ARG	G	47	98.571	147.513	157.471	1.00	41.25	G
ATOM	11293	O	ARG	G	47	97.694	148.341	157.244	1.00	40.78	G
ATOM	11294	N	PHE	G	48	98.439	146.234	157.148	1.00	37.61	G
ATOM	11295	CA	PHE	G	48	97.221	145.768	156.506	1.00	38.17	G
ATOM	11296	CB	PHE	G	48	97.436	145.551	154.994	1.00	38.39	G
ATOM	11297	CG	PHE	G	48	97.632	146.824	154.233	1.00	33.31	G
ATOM	11298	CD1	PHE	G	48	98.899	147.388	154.119	1.00	33.69	G
ATOM	11299	CD2	PHE	G	48	96.535	147.520	153.733	1.00	31.75	G
ATOM	11300	CE1	PHE	G	48	99.074	148.633	153.533	1.00	29.95	G
ATOM	11301	CE2	PHE	G	48	96.692	148.762	153.145	1.00	31.02	G
ATOM	11302	CZ	PHE	G	48	97.958	149.326	153.044	1.00	32.79	G
ATOM	11303	C	PHE	G	48	96.751	144.489	157.153	1.00	35.18	G
ATOM	11304	O	PHE	G	48	97.560	143.677	157.549	1.00	34.42	G
ATOM	11305	N	ILE	G	49	95.439	144.320	157.256	1.00	34.01	G
ATOM	11306	CA	ILE	G	49	94.877	143.134	157.861	1.00	37.52	G
ATOM	11307	CB	ILE	G	49	94.256	143.485	159.217	1.00	41.49	G
ATOM	11308	CG2	ILE	G	49	93.608	142.260	159.850	1.00	38.06	G
ATOM	11309	CG1	ILE	G	49	95.367	143.988	160.136	1.00	44.66	G
ATOM	11310	CD1	ILE	G	49	94.862	144.779	161.313	1.00	53.46	G
ATOM	11311	C	ILE	G	49	93.857	142.504	156.929	1.00	36.49	G
ATOM	11312	O	ILE	G	49	93.062	143.188	156.299	1.00	36.66	G
ATOM	11313	N	VAL	G	50	93.897	141.185	156.843	1.00	33.54	G
ATOM	11314	CA	VAL	G	50	93.005	140.459	155.964	1.00	35.20	G
ATOM	11315	CB	VAL	G	50	93.803	139.478	155.072	1.00	35.32	G
ATOM	11316	CG1	VAL	G	50	92.888	138.828	154.056	1.00	34.09	G
ATOM	11317	CG2	VAL	G	50	94.939	140.212	154.393	1.00	32.99	G
ATOM	11318	C	VAL	G	50	92.007	139.662	156.774	1.00	35.63	G
ATOM	11319	O	VAL	G	50	92.354	139.108	157.810	1.00	37.76	G

ATOM	11320	N	THR	G	51	90.768	139.600	156.304	1.00	34.41	G
ATOM	11321	CA	THR	G	51	89.747	138.830	157.002	1.00	34.68	G
ATOM	11322	CB	THR	G	51	88.736	139.714	157.763	1.00	37.19	G
ATOM	11323	OG1	THR	G	51	88.141	140.645	156.853	1.00	39.53	G
ATOM	11324	CG2	THR	G	51	89.406	140.465	158.889	1.00	42.43	G
ATOM	11325	C	THR	G	51	88.950	138.045	155.992	1.00	35.36	G
ATOM	11326	O	THR	G	51	88.765	138.474	154.854	1.00	35.84	G
ATOM	11327	N	PRO	G	52	88.515	136.849	156.379	1.00	35.41	G
ATOM	11328	CD	PRO	G	52	87.340	136.181	155.800	1.00	34.03	G
ATOM	11329	CA	PRO	G	52	88.809	136.318	157.711	1.00	33.96	G
ATOM	11330	CB	PRO	G	52	87.830	135.157	157.856	1.00	32.47	G
ATOM	11331	CG	PRO	G	52	87.423	134.840	156.446	1.00	39.04	G
ATOM	11332	C	PRO	G	52	90.250	135.859	157.802	1.00	34.47	G
ATOM	11333	O	PRO	G	52	90.779	135.257	156.879	1.00	39.44	G
ATOM	11334	N	PRO	G	53	90.909	136.139	158.922	1.00	33.87	G
ATOM	11335	CD	PRO	G	53	90.422	136.771	160.162	1.00	32.34	G
ATOM	11336	CA	PRO	G	53	92.300	135.716	159.054	1.00	33.58	G
ATOM	11337	CB	PRO	G	53	92.685	136.249	160.434	1.00	35.93	G
ATOM	11338	CG	PRO	G	53	91.368	136.229	161.187	1.00	27.34	G
ATOM	11339	C	PRO	G	53	92.507	134.211	158.927	1.00	34.02	G
ATOM	11340	O	PRO	G	53	93.613	133.764	158.639	1.00	34.91	G
ATOM	11341	N	LEU	G	54	91.449	133.433	159.139	1.00	35.42	G
ATOM	11342	CA	LEU	G	54	91.545	131.971	159.071	1.00	37.05	G
ATOM	11343	CB	LEU	G	54	92.107	131.419	160.372	1.00	35.64	G
ATOM	11344	CG	LEU	G	54	92.221	129.902	160.478	1.00	37.13	G
ATOM	11345	CD1	LEU	G	54	93.490	129.433	159.768	1.00	40.13	G
ATOM	11346	CD2	LEU	G	54	92.261	129.504	161.932	1.00	35.57	G
ATOM	11347	C	LEU	G	54	90.185	131.343	158.857	1.00	39.92	G
ATOM	11348	O	LEU	G	54	89.279	131.558	159.665	1.00	46.00	G
ATOM	11349	N	PHE	G	55	90.038	130.554	157.798	1.00	36.69	G
ATOM	11350	CA	PHE	G	55	88.752	129.919	157.516	1.00	35.83	G
ATOM	11351	CB	PHE	G	55	87.796	130.909	156.861	1.00	31.55	G
ATOM	11352	CG	PHE	G	55	88.262	131.403	155.529	1.00	40.01	G
ATOM	11353	CD1	PHE	G	55	87.840	130.790	154.352	1.00	41.20	G
ATOM	11354	CD2	PHE	G	55	89.159	132.465	155.445	1.00	43.42	G
ATOM	11355	CE1	PHE	G	55	88.304	131.227	153.106	1.00	44.19	G
ATOM	11356	CE2	PHE	G	55	89.631	132.910	154.211	1.00	45.78	G
ATOM	11357	CZ	PHE	G	55	89.203	132.290	153.035	1.00	46.90	G
ATOM	11358	C	PHE	G	55	88.914	128.724	156.610	1.00	38.58	G
ATOM	11359	O	PHE	G	55	89.963	128.546	155.978	1.00	40.62	G
ATOM	11360	N	ALA	G	56	87.864	127.910	156.534	1.00	39.63	G
ATOM	11361	CA	ALA	G	56	87.908	126.707	155.713	1.00	38.58	G
ATOM	11362	CB	ALA	G	56	87.387	125.536	156.509	1.00	34.59	G
ATOM	11363	C	ALA	G	56	87.168	126.793	154.379	1.00	37.95	G
ATOM	11364	O	ALA	G	56	86.142	127.461	154.249	1.00	36.33	G
ATOM	11365	N	MET	G	57	87.721	126.116	153.384	1.00	37.90	G
ATOM	11366	CA	MET	G	57	87.114	126.055	152.072	1.00	39.15	G
ATOM	11367	CB	MET	G	57	87.993	126.720	151.028	1.00	34.17	G
ATOM	11368	CG	MET	G	57	88.246	128.176	151.293	1.00	41.04	G
ATOM	11369	SD	MET	G	57	88.246	129.113	149.749	1.00	43.32	G
ATOM	11370	CE	MET	G	57	89.684	128.474	149.023	1.00	54.74	G
ATOM	11371	C	MET	G	57	86.999	124.570	151.792	1.00	42.80	G
ATOM	11372	O	MET	G	57	88.001	123.893	151.559	1.00	42.71	G
ATOM	11373	N	LYS	G	58	85.772	124.065	151.843	1.00	45.68	G
ATOM	11374	CA	LYS	G	58	85.526	122.653	151.611	1.00	52.46	G
ATOM	11375	CB	LYS	G	58	84.441	122.159	152.565	1.00	57.34	G
ATOM	11376	CG	LYS	G	58	84.390	120.657	152.726	1.00	61.30	G
ATOM	11377	CD	LYS	G	58	83.238	120.250	153.632	1.00	68.55	G

ATOM	11378	CE	LYS	G	58	83.486	118.895	154.282	1.00	72.68	G
ATOM	11379	NZ	LYS	G	58	84.645	118.954	155.229	1.00	70.38	G
ATOM	11380	C	LYS	G	58	85.113	122.386	150.167	1.00	54.89	G
ATOM	11381	O	LYS	G	58	84.105	122.906	149.690	1.00	57.59	G
ATOM	11382	N	GLY	G	59	85.897	121.568	149.474	1.00	56.50	G
ATOM	11383	CA	GLY	G	59	85.589	121.247	148.092	1.00	55.78	G
ATOM	11384	C	GLY	G	59	85.539	122.486	147.227	1.00	54.26	G
ATOM	11385	O	GLY	G	59	85.924	123.563	147.681	1.00	51.66	G
ATOM	11386	N	LYS	G	60	85.066	122.340	145.989	1.00	55.02	G
ATOM	11387	CA	LYS	G	60	84.984	123.469	145.069	1.00	57.94	G
ATOM	11388	CB	LYS	G	60	84.424	123.035	143.713	1.00	57.32	G
ATOM	11389	CG	LYS	G	60	85.241	121.952	143.037	1.00	59.37	G
ATOM	11390	CD	LYS	G	60	85.101	121.985	141.523	1.00	65.25	G
ATOM	11391	CE	LYS	G	60	85.783	123.215	140.938	1.00	74.59	G
ATOM	11392	NZ	LYS	G	60	85.780	123.242	139.438	1.00	80.57	G
ATOM	11393	C	LYS	G	60	84.095	124.536	145.677	1.00	57.82	G
ATOM	11394	O	LYS	G	60	82.881	124.368	145.759	1.00	60.15	G
ATOM	11395	N	LYS	G	61	84.718	125.626	146.111	1.00	52.92	G
ATOM	11396	CA	LYS	G	61	84.018	126.730	146.743	1.00	49.31	G
ATOM	11397	CB	LYS	G	61	84.132	126.621	148.268	1.00	49.93	G
ATOM	11398	CG	LYS	G	61	82.804	126.503	148.993	1.00	54.57	G
ATOM	11399	CD	LYS	G	61	82.719	127.493	150.150	1.00	62.63	G
ATOM	11400	CE	LYS	G	61	83.790	127.235	151.217	1.00	70.91	G
ATOM	11401	NZ	LYS	G	61	83.798	128.272	152.314	1.00	69.28	G
ATOM	11402	C	LYS	G	61	84.652	128.032	146.283	1.00	49.00	G
ATOM	11403	O	LYS	G	61	85.677	128.037	145.603	1.00	48.31	G
ATOM	11404	N	GLU	G	62	84.035	129.142	146.651	1.00	48.80	G
ATOM	11405	CA	GLU	G	62	84.560	130.446	146.287	1.00	49.31	G
ATOM	11406	CB	GLU	G	62	83.928	130.905	144.977	1.00	50.88	G
ATOM	11407	CG	GLU	G	62	84.867	131.695	144.092	1.00	67.05	G
ATOM	11408	CD	GLU	G	62	84.621	133.196	144.148	1.00	73.96	G
ATOM	11409	OE1	GLU	G	62	84.591	133.759	145.266	1.00	78.53	G
ATOM	11410	OE2	GLU	G	62	84.464	133.812	143.067	1.00	74.18	G
ATOM	11411	C	GLU	G	62	84.213	131.385	147.434	1.00	46.08	G
ATOM	11412	O	GLU	G	62	83.089	131.377	147.926	1.00	52.51	G
ATOM	11413	N	ASN	G	63	85.181	132.159	147.900	1.00	41.54	G
ATOM	11414	CA	ASN	G	63	84.907	133.078	148.994	1.00	41.39	G
ATOM	11415	CB	ASN	G	63	85.363	132.529	150.345	1.00	43.03	G
ATOM	11416	CG	ASN	G	63	84.629	131.286	150.747	1.00	46.81	G
ATOM	11417	OD1	ASN	G	63	85.028	130.182	150.399	1.00	49.84	G
ATOM	11418	ND2	ASN	G	63	83.538	131.455	151.480	1.00	51.69	G
ATOM	11419	C	ASN	G	63	85.647	134.347	148.743	1.00	39.76	G
ATOM	11420	O	ASN	G	63	86.457	134.421	147.814	1.00	42.94	G
ATOM	11421	N	THR	G	64	85.392	135.338	149.587	1.00	35.33	G
ATOM	11422	CA	THR	G	64	86.051	136.620	149.434	1.00	35.73	G
ATOM	11423	CB	THR	G	64	85.040	137.728	149.182	1.00	34.50	G
ATOM	11424	OG1	THR	G	64	84.180	137.351	148.101	1.00	45.53	G
ATOM	11425	CG2	THR	G	64	85.757	139.018	148.835	1.00	29.69	G
ATOM	11426	C	THR	G	64	86.915	137.065	150.594	1.00	36.26	G
ATOM	11427	O	THR	G	64	86.491	137.052	151.748	1.00	40.08	G
ATOM	11428	N	LEU	G	65	88.133	137.470	150.267	1.00	34.80	G
ATOM	11429	CA	LEU	G	65	89.059	137.975	151.257	1.00	35.47	G
ATOM	11430	CB	LEU	G	65	90.486	137.577	150.900	1.00	32.19	G
ATOM	11431	CG	LEU	G	65	90.795	136.095	151.019	1.00	26.54	G
ATOM	11432	CD1	LEU	G	65	92.255	135.852	150.734	1.00	29.05	G
ATOM	11433	CD2	LEU	G	65	90.456	135.632	152.405	1.00	37.26	G
ATOM	11434	C	LEU	G	65	88.923	139.489	151.216	1.00	36.79	G
ATOM	11435	O	LEU	G	65	88.785	140.061	150.141	1.00	35.92	G

ATOM	11436	N	ARG	G	66	88.939	140.130	152.382	1.00	39.73	G
ATOM	11437	CA	ARG	G	66	88.827	141.584	152.460	1.00	40.77	G
ATOM	11438	CB	ARG	G	66	87.581	141.978	153.252	1.00	42.41	G
ATOM	11439	CG	ARG	G	66	86.286	141.460	152.646	1.00	51.58	G
ATOM	11440	CD	ARG	G	66	85.105	141.703	153.570	1.00	60.99	G
ATOM	11441	NE	ARG	G	66	83.995	140.794	153.294	1.00	60.92	G
ATOM	11442	CZ	ARG	G	66	83.256	140.830	152.195	1.00	62.50	G
ATOM	11443	NH1	ARG	G	66	83.507	141.740	151.265	1.00	65.63	G
ATOM	11444	NH2	ARG	G	66	82.275	139.950	152.020	1.00	66.02	G
ATOM	11445	C	ARG	G	66	90.069	142.144	153.130	1.00	40.01	G
ATOM	11446	O	ARG	G	66	90.408	141.741	154.237	1.00	43.67	G
ATOM	11447	N	ILE	G	67	90.753	143.053	152.443	1.00	38.55	G
ATOM	11448	CA	ILE	G	67	91.969	143.664	152.965	1.00	39.06	G
ATOM	11449	CB	ILE	G	67	93.010	143.909	151.856	1.00	35.68	G
ATOM	11450	CG2	ILE	G	67	94.180	144.689	152.416	1.00	38.18	G
ATOM	11451	CG1	ILE	G	67	93.510	142.585	151.282	1.00	38.49	G
ATOM	11452	CD1	ILE	G	67	92.563	141.947	150.303	1.00	40.69	G
ATOM	11453	C	ILE	G	67	91.675	145.006	153.641	1.00	42.53	G
ATOM	11454	O	ILE	G	67	91.198	145.957	153.009	1.00	42.99	G
ATOM	11455	N	LEU	G	68	91.990	145.084	154.927	1.00	38.47	G
ATOM	11456	CA	LEU	G	68	91.730	146.286	155.679	1.00	38.44	G
ATOM	11457	CB	LEU	G	68	91.082	145.936	157.010	1.00	39.33	G
ATOM	11458	CG	LEU	G	68	89.929	144.946	156.984	1.00	38.46	G
ATOM	11459	CD1	LEU	G	68	89.492	144.698	158.398	1.00	39.13	G
ATOM	11460	CD2	LEU	G	68	88.793	145.494	156.154	1.00	41.76	G
ATOM	11461	C	LEU	G	68	92.965	147.121	155.947	1.00	42.66	G
ATOM	11462	O	LEU	G	68	94.022	146.613	156.335	1.00	40.93	G
ATOM	11463	N	ASP	G	69	92.793	148.424	155.757	1.00	44.92	G
ATOM	11464	CA	ASP	G	69	93.831	149.406	155.966	1.00	43.39	G
ATOM	11465	CB	ASP	G	69	93.422	150.675	155.237	1.00	41.71	G
ATOM	11466	CG	ASP	G	69	94.381	151.817	155.457	1.00	46.79	G
ATOM	11467	OD1	ASP	G	69	94.152	152.886	154.846	1.00	50.70	G
ATOM	11468	OD2	ASP	G	69	95.349	151.656	156.232	1.00	36.57	G
ATOM	11469	C	ASP	G	69	93.992	149.667	157.457	1.00	48.72	G
ATOM	11470	O	ASP	G	69	93.104	150.212	158.097	1.00	52.63	G
ATOM	11471	N	ALA	G	70	95.114	149.261	158.027	1.00	54.15	G
ATOM	11472	CA	ALA	G	70	95.340	149.497	159.444	1.00	61.50	G
ATOM	11473	CB	ALA	G	70	96.007	148.301	160.078	1.00	61.31	G
ATOM	11474	C	ALA	G	70	96.239	150.708	159.561	1.00	69.79	G
ATOM	11475	O	ALA	G	70	96.210	151.429	160.562	1.00	70.84	G
ATOM	11476	N	THR	G	71	97.043	150.920	158.520	1.00	78.61	G
ATOM	11477	CA	THR	G	71	97.976	152.041	158.479	1.00	85.01	G
ATOM	11478	CB	THR	G	71	98.923	151.962	157.246	1.00	81.73	G
ATOM	11479	OG1	THR	G	71	99.734	153.142	157.195	1.00	84.20	G
ATOM	11480	CG2	THR	G	71	98.139	151.838	155.958	1.00	80.84	G
ATOM	11481	C	THR	G	71	97.231	153.364	158.458	1.00	91.97	G
ATOM	11482	O	THR	G	71	96.713	153.784	157.416	1.00	94.53	G
ATOM	11483	N	ASN	G	72	97.171	154.010	159.622	1.00	96.58	G
ATOM	11484	CA	ASN	G	72	96.494	155.294	159.758	1.00	101.26	G
ATOM	11485	CB	ASN	G	72	96.451	155.712	161.234	1.00	105.20	G
ATOM	11486	CG	ASN	G	72	95.360	154.997	162.017	1.00	109.20	G
ATOM	11487	OD1	ASN	G	72	95.194	155.223	163.218	1.00	109.86	G
ATOM	11488	ND2	ASN	G	72	94.604	154.138	161.336	1.00	110.79	G
ATOM	11489	C	ASN	G	72	97.184	156.380	158.929	1.00	102.36	G
ATOM	11490	O	ASN	G	72	97.789	157.304	159.479	1.00	105.01	G
ATOM	11491	N	ASN	G	73	97.091	156.263	157.607	1.00	100.65	G
ATOM	11492	CA	ASN	G	73	97.704	157.229	156.701	1.00	97.72	G
ATOM	11493	CB	ASN	G	73	96.847	158.499	156.624	1.00	99.27	G

ATOM	11494	CG	ASN	G	73	95.359	158.199	156.555	1.00	100.20	G
ATOM	11495	OD1	ASN	G	73	94.775	157.660	157.500	1.00	99.28	G
ATOM	11496	ND2	ASN	G	73	94.738	158.548	155.436	1.00	97.54	G
ATOM	11497	C	ASN	G	73	99.116	157.597	157.173	1.00	94.76	G
ATOM	11498	O	ASN	G	73	99.536	158.749	157.051	1.00	95.27	G
ATOM	11499	N	GLN	G	74	99.838	156.619	157.718	1.00	89.24	G
ATOM	11500	CA	GLN	G	74	101.197	156.841	158.214	1.00	83.63	G
ATOM	11501	CB	GLN	G	74	101.443	155.974	159.458	1.00	88.28	G
ATOM	11502	CG	GLN	G	74	100.493	156.303	160.627	1.00	94.38	G
ATOM	11503	CD	GLN	G	74	100.426	155.212	161.703	1.00	97.31	G
ATOM	11504	OE1	GLN	G	74	99.707	155.350	162.698	1.00	95.57	G
ATOM	11505	NE2	GLN	G	74	101.167	154.124	161.500	1.00	96.25	G
ATOM	11506	C	GLN	G	74	102.219	156.516	157.125	1.00	76.27	G
ATOM	11507	O	GLN	G	74	103.421	156.411	157.390	1.00	75.07	G
ATOM	11508	N	LEU	G	75	101.727	156.367	155.897	1.00	66.95	G
ATOM	11509	CA	LEU	G	75	102.574	156.049	154.752	1.00	60.35	G
ATOM	11510	CB	LEU	G	75	101.935	154.940	153.906	1.00	48.80	G
ATOM	11511	CG	LEU	G	75	101.685	153.572	154.531	1.00	45.98	G
ATOM	11512	CD1	LEU	G	75	100.708	152.798	153.669	1.00	35.62	G
ATOM	11513	CD2	LEU	G	75	103.002	152.822	154.693	1.00	41.78	G
ATOM	11514	C	LEU	G	75	102.774	157.266	153.861	1.00	59.23	G
ATOM	11515	O	LEU	G	75	101.996	158.219	153.906	1.00	59.64	G
ATOM	11516	N	PRO	G	76	103.828	157.250	153.037	1.00	57.93	G
ATOM	11517	CD	PRO	G	76	104.894	156.238	152.964	1.00	57.86	G
ATOM	11518	CA	PRO	G	76	104.106	158.363	152.128	1.00	60.06	G
ATOM	11519	CB	PRO	G	76	105.260	157.829	151.289	1.00	54.98	G
ATOM	11520	CG	PRO	G	76	106.001	156.993	152.260	1.00	53.40	G
ATOM	11521	C	PRO	G	76	102.856	158.634	151.279	1.00	63.17	G
ATOM	11522	O	PRO	G	76	102.206	157.695	150.825	1.00	61.68	G
ATOM	11523	N	GLN	G	77	102.527	159.908	151.061	1.00	66.55	G
ATOM	11524	CA	GLN	G	77	101.342	160.260	150.282	1.00	66.33	G
ATOM	11525	CB	GLN	G	77	100.523	161.304	151.035	1.00	65.70	G
ATOM	11526	CG	GLN	G	77	99.980	160.783	152.344	1.00	71.58	G
ATOM	11527	CD	GLN	G	77	99.152	159.527	152.162	1.00	74.26	G
ATOM	11528	OE1	GLN	G	77	99.327	158.541	152.883	1.00	73.04	G
ATOM	11529	NE2	GLN	G	77	98.239	159.557	151.197	1.00	74.48	G
ATOM	11530	C	GLN	G	77	101.599	160.743	148.855	1.00	66.14	G
ATOM	11531	O	GLN	G	77	100.660	161.072	148.130	1.00	66.79	G
ATOM	11532	N	ASP	G	78	102.863	160.766	148.448	1.00	63.01	G
ATOM	11533	CA	ASP	G	78	103.222	161.202	147.106	1.00	61.07	G
ATOM	11534	CB	ASP	G	78	104.474	162.082	147.162	1.00	61.29	G
ATOM	11535	CG	ASP	G	78	105.654	161.386	147.824	1.00	65.74	G
ATOM	11536	OD1	ASP	G	78	106.794	161.858	147.651	1.00	68.21	G
ATOM	11537	OD2	ASP	G	78	105.453	160.373	148.526	1.00	69.61	G
ATOM	11538	C	ASP	G	78	103.478	160.033	146.148	1.00	61.56	G
ATOM	11539	O	ASP	G	78	103.521	160.212	144.927	1.00	61.86	G
ATOM	11540	N	ARG	G	79	103.634	158.834	146.700	1.00	59.99	G
ATOM	11541	CA	ARG	G	79	103.931	157.663	145.888	1.00	56.07	G
ATOM	11542	CB	ARG	G	79	105.439	157.453	145.864	1.00	57.91	G
ATOM	11543	CG	ARG	G	79	106.006	157.130	147.239	1.00	60.87	G
ATOM	11544	CD	ARG	G	79	107.492	157.354	147.284	1.00	60.65	G
ATOM	11545	NE	ARG	G	79	107.772	158.780	147.215	1.00	67.04	G
ATOM	11546	CZ	ARG	G	79	108.976	159.306	147.020	1.00	67.15	G
ATOM	11547	NH1	ARG	G	79	110.041	158.525	146.868	1.00	62.32	G
ATOM	11548	NH2	ARG	G	79	109.110	160.624	146.975	1.00	67.52	G
ATOM	11549	C	ARG	G	79	103.275	156.431	146.467	1.00	50.78	G
ATOM	11550	O	ARG	G	79	102.772	156.461	147.580	1.00	49.57	G
ATOM	11551	N	GLU	G	80	103.287	155.343	145.706	1.00	47.82	G

ATOM	11552	CA	GLU	G	80	102.709	154.091	146.179	1.00	43.41	G
ATOM	11553	CB	GLU	G	80	102.495	153.108	145.035	1.00	40.09	G
ATOM	11554	CG	GLU	G	80	101.658	153.574	143.886	1.00	34.56	G
ATOM	11555	CD	GLU	G	80	101.497	152.476	142.859	1.00	34.94	G
ATOM	11556	OE1	GLU	G	80	100.365	151.988	142.664	1.00	29.57	G
ATOM	11557	OE2	GLU	G	80	102.517	152.089	142.251	1.00	42.08	G
ATOM	11558	C	GLU	G	80	103.716	153.452	147.128	1.00	43.61	G
ATOM	11559	O	GLU	G	80	104.919	153.714	147.044	1.00	42.90	G
ATOM	11560	N	SER	G	81	103.226	152.611	148.029	1.00	39.93	G
ATOM	11561	CA	SER	G	81	104.110	151.917	148.939	1.00	37.52	G
ATOM	11562	CB	SER	G	81	103.726	152.209	150.387	1.00	39.60	G
ATOM	11563	OG	SER	G	81	103.847	153.599	150.664	1.00	46.67	G
ATOM	11564	C	SER	G	81	103.929	150.454	148.605	1.00	37.65	G
ATOM	11565	O	SER	G	81	102.799	149.993	148.433	1.00	41.31	G
ATOM	11566	N	LEU	G	82	105.034	149.727	148.483	1.00	36.91	G
ATOM	11567	CA	LEU	G	82	104.979	148.304	148.150	1.00	37.13	G
ATOM	11568	CB	LEU	G	82	106.273	147.881	147.453	1.00	35.78	G
ATOM	11569	CG	LEU	G	82	106.555	146.384	147.290	1.00	36.90	G
ATOM	11570	CD1	LEU	G	82	105.371	145.643	146.705	1.00	33.84	G
ATOM	11571	CD2	LEU	G	82	107.758	146.234	146.404	1.00	35.01	G
ATOM	11572	C	LEU	G	82	104.733	147.388	149.344	1.00	37.47	G
ATOM	11573	O	LEU	G	82	105.376	147.524	150.402	1.00	35.55	G
ATOM	11574	N	PHE	G	83	103.795	146.459	149.164	1.00	34.65	G
ATOM	11575	CA	PHE	G	83	103.458	145.483	150.199	1.00	34.77	G
ATOM	11576	CB	PHE	G	83	102.178	145.866	150.935	1.00	33.70	G
ATOM	11577	CG	PHE	G	83	102.354	146.996	151.901	1.00	40.57	G
ATOM	11578	CD1	PHE	G	83	102.385	148.315	151.463	1.00	28.39	G
ATOM	11579	CD2	PHE	G	83	102.534	146.732	153.262	1.00	44.10	G
ATOM	11580	CE1	PHE	G	83	102.598	149.349	152.363	1.00	33.34	G
ATOM	11581	CE2	PHE	G	83	102.747	147.768	154.168	1.00	38.29	G
ATOM	11582	CZ	PHE	G	83	102.778	149.076	153.711	1.00	36.55	G
ATOM	11583	C	PHE	G	83	103.253	144.129	149.558	1.00	35.44	G
ATOM	11584	O	PHE	G	83	103.099	144.031	148.343	1.00	36.75	G
ATOM	11585	N	TRP	G	84	103.248	143.079	150.373	1.00	34.46	G
ATOM	11586	CA	TRP	G	84	103.046	141.750	149.844	1.00	27.62	G
ATOM	11587	CB	TRP	G	84	104.329	140.945	149.925	1.00	19.24	G
ATOM	11588	CG	TRP	G	84	105.394	141.513	149.062	1.00	22.26	G
ATOM	11589	CD2	TRP	G	84	105.638	141.210	147.679	1.00	19.25	G
ATOM	11590	CE2	TRP	G	84	106.737	141.989	147.268	1.00	18.32	G
ATOM	11591	CE3	TRP	G	84	105.030	140.362	146.749	1.00	23.41	G
ATOM	11592	CD1	TRP	G	84	106.323	142.435	149.418	1.00	22.15	G
ATOM	11593	NE1	TRP	G	84	107.140	142.726	148.348	1.00	24.80	G
ATOM	11594	CZ2	TRP	G	84	107.242	141.945	145.967	1.00	16.88	G
ATOM	11595	CZ3	TRP	G	84	105.530	140.317	145.459	1.00	12.56	G
ATOM	11596	CH2	TRP	G	84	106.621	141.101	145.081	1.00	19.87	G
ATOM	11597	C	TRP	G	84	101.925	141.021	150.536	1.00	28.79	G
ATOM	11598	O	TRP	G	84	101.918	140.881	151.756	1.00	32.46	G
ATOM	11599	N	MET	G	85	100.983	140.565	149.715	1.00	29.19	G
ATOM	11600	CA	MET	G	85	99.792	139.836	150.114	1.00	26.46	G
ATOM	11601	CB	MET	G	85	98.655	140.248	149.169	1.00	27.32	G
ATOM	11602	CG	MET	G	85	97.372	139.455	149.284	1.00	31.46	G
ATOM	11603	SD	MET	G	85	96.392	139.904	150.701	1.00	42.11	G
ATOM	11604	CE	MET	G	85	95.030	138.740	150.563	1.00	31.88	G
ATOM	11605	C	MET	G	85	100.086	138.333	150.007	1.00	27.54	G
ATOM	11606	O	MET	G	85	100.530	137.848	148.958	1.00	25.74	G
ATOM	11607	N	ASN	G	86	99.839	137.607	151.099	1.00	29.22	G
ATOM	11608	CA	ASN	G	86	100.076	136.162	151.166	1.00	26.02	G
ATOM	11609	CB	ASN	G	86	101.213	135.843	152.163	1.00	20.12	G

ATOM	11610	CG	ASN	G	86	102.577	136.413	151.721	1.00	29.14	G
ATOM	11611	OD1	ASN	G	86	102.860	137.599	151.908	1.00	27.73	G
ATOM	11612	ND2	ASN	G	86	103.417	135.568	151.131	1.00	17.66	G
ATOM	11613	C	ASN	G	86	98.814	135.393	151.561	1.00	24.26	G
ATOM	11614	O	ASN	G	86	98.143	135.752	152.503	1.00	29.57	G
ATOM	11615	N	VAL	G	87	98.499	134.335	150.822	1.00	25.42	G
ATOM	11616	CA	VAL	G	87	97.330	133.498	151.079	1.00	20.11	G
ATOM	11617	CB	VAL	G	87	96.252	133.694	149.984	1.00	18.33	G
ATOM	11618	CG1	VAL	G	87	95.061	132.773	150.222	1.00	10.64	G
ATOM	11619	CG2	VAL	G	87	95.802	135.150	149.966	1.00	11.94	G
ATOM	11620	C	VAL	G	87	97.849	132.067	151.054	1.00	24.87	G
ATOM	11621	O	VAL	G	87	98.287	131.545	150.020	1.00	24.78	G
ATOM	11622	N	LYS	G	88	97.812	131.462	152.230	1.00	27.09	G
ATOM	11623	CA	LYS	G	88	98.287	130.113	152.464	1.00	29.45	G
ATOM	11624	CB	LYS	G	88	99.016	130.093	153.797	1.00	29.28	G
ATOM	11625	CG	LYS	G	88	99.484	128.764	154.280	1.00	31.74	G
ATOM	11626	CD	LYS	G	88	100.582	129.012	155.296	1.00	33.49	G
ATOM	11627	CE	LYS	G	88	100.798	127.831	156.197	1.00	34.97	G
ATOM	11628	NZ	LYS	G	88	101.739	128.231	157.255	1.00	39.47	G
ATOM	11629	C	LYS	G	88	97.150	129.118	152.489	1.00	30.68	G
ATOM	11630	O	LYS	G	88	96.105	129.395	153.059	1.00	34.55	G
ATOM	11631	N	ALA	G	89	97.354	127.960	151.867	1.00	30.11	G
ATOM	11632	CA	ALA	G	89	96.331	126.923	151.842	1.00	30.79	G
ATOM	11633	CB	ALA	G	89	96.094	126.446	150.422	1.00	32.33	G
ATOM	11634	C	ALA	G	89	96.806	125.769	152.709	1.00	32.30	G
ATOM	11635	O	ALA	G	89	97.653	124.980	152.310	1.00	31.28	G
ATOM	11636	N	ILE	G	90	96.252	125.676	153.905	1.00	35.10	G
ATOM	11637	CA	ILE	G	90	96.635	124.630	154.838	1.00	42.25	G
ATOM	11638	CB	ILE	G	90	96.457	125.110	156.301	1.00	43.77	G
ATOM	11639	CG2	ILE	G	90	96.752	123.974	157.266	1.00	36.94	G
ATOM	11640	CG1	ILE	G	90	97.362	126.316	156.569	1.00	43.56	G
ATOM	11641	CD1	ILE	G	90	97.152	126.955	157.928	1.00	39.32	G
ATOM	11642	C	ILE	G	90	95.814	123.357	154.654	1.00	49.26	G
ATOM	11643	O	ILE	G	90	94.581	123.360	154.788	1.00	52.58	G
ATOM	11644	N	PRO	G	91	96.483	122.243	154.338	1.00	51.33	G
ATOM	11645	CD	PRO	G	91	97.900	122.033	154.016	1.00	50.53	G
ATOM	11646	CA	PRO	G	91	95.724	121.010	154.165	1.00	54.05	G
ATOM	11647	CB	PRO	G	91	96.721	120.097	153.476	1.00	45.39	G
ATOM	11648	CG	PRO	G	91	97.998	120.526	154.054	1.00	50.62	G
ATOM	11649	C	PRO	G	91	95.272	120.495	155.532	1.00	60.50	G
ATOM	11650	O	PRO	G	91	95.057	121.271	156.461	1.00	61.08	G
ATOM	11651	N	SER	G	92	95.129	119.186	155.654	1.00	67.71	G
ATOM	11652	CA	SER	G	92	94.691	118.586	156.901	1.00	71.17	G
ATOM	11653	CB	SER	G	92	93.202	118.270	156.797	1.00	70.34	G
ATOM	11654	OG	SER	G	92	92.871	117.939	155.456	1.00	67.85	G
ATOM	11655	C	SER	G	92	95.507	117.326	157.117	1.00	75.06	G
ATOM	11656	O	SER	G	92	95.914	116.696	156.151	1.00	77.82	G
ATOM	11657	N	MET	G	93	95.750	116.959	158.372	1.00	80.82	G
ATOM	11658	CA	MET	G	93	96.547	115.767	158.677	1.00	87.27	G
ATOM	11659	CB	MET	G	93	97.045	115.820	160.133	1.00	93.41	G
ATOM	11660	CG	MET	G	93	98.216	114.870	160.462	1.00	102.58	G
ATOM	11661	SD	MET	G	93	97.812	113.160	160.995	1.00	110.10	G
ATOM	11662	CE	MET	G	93	98.513	113.142	162.647	1.00	104.70	G
ATOM	11663	C	MET	G	93	95.787	114.460	158.449	1.00	87.50	G
ATOM	11664	O	MET	G	93	94.715	114.257	159.019	1.00	85.87	G
ATOM	11665	N	ASP	G	94	96.341	113.586	157.607	1.00	89.23	G
ATOM	11666	CA	ASP	G	94	95.724	112.289	157.339	1.00	90.41	G
ATOM	11667	CB	ASP	G	94	96.391	111.551	156.164	1.00	92.55	G

ATOM	11668	CG	ASP	G	94	96.318	112.313	154.854	1.00	97.27	G
ATOM	11669	OD1	ASP	G	94	96.255	111.649	153.791	1.00	93.77	G
ATOM	11670	OD2	ASP	G	94	96.343	113.563	154.880	1.00	99.45	G
ATOM	11671	C	ASP	G	94	95.939	111.443	158.578	1.00	90.08	G
ATOM	11672	O	ASP	G	94	97.078	111.223	158.992	1.00	90.58	G
ATOM	11673	N	LYS	G	95	94.854	110.983	159.185	1.00	89.11	G
ATOM	11674	CA	LYS	G	95	94.979	110.129	160.352	1.00	87.67	G
ATOM	11675	CB	LYS	G	95	93.664	110.088	161.128	1.00	85.78	G
ATOM	11676	CG	LYS	G	95	93.331	111.378	161.862	1.00	82.26	G
ATOM	11677	CD	LYS	G	95	92.889	112.489	160.938	1.00	84.50	G
ATOM	11678	CE	LYS	G	95	91.489	112.242	160.396	1.00	83.35	G
ATOM	11679	NZ	LYS	G	95	90.981	113.408	159.620	1.00	83.42	G
ATOM	11680	C	LYS	G	95	95.306	108.760	159.776	1.00	88.16	G
ATOM	11681	O	LYS	G	95	95.455	107.780	160.498	1.00	87.66	G
ATOM	11682	N	SER	G	96	95.429	108.732	158.451	1.00	90.38	G
ATOM	11683	CA	SER	G	96	95.724	107.527	157.681	1.00	90.92	G
ATOM	11684	CB	SER	G	96	95.046	107.628	156.310	1.00	91.16	G
ATOM	11685	OG	SER	G	96	95.408	108.830	155.645	1.00	90.18	G
ATOM	11686	C	SER	G	96	97.217	107.229	157.485	1.00	90.82	G
ATOM	11687	O	SER	G	96	97.616	106.063	157.439	1.00	91.39	G
ATOM	11688	N	LYS	G	97	98.036	108.270	157.355	1.00	89.51	G
ATOM	11689	CA	LYS	G	97	99.473	108.081	157.163	1.00	88.43	G
ATOM	11690	CB	LYS	G	97	99.976	108.960	156.016	1.00	90.08	G
ATOM	11691	CG	LYS	G	97	99.107	108.942	154.761	1.00	96.22	G
ATOM	11692	CD	LYS	G	97	98.999	107.558	154.143	1.00	101.85	G
ATOM	11693	CE	LYS	G	97	98.100	107.584	152.913	1.00	103.11	G
ATOM	11694	NZ	LYS	G	97	97.868	106.222	152.357	1.00	104.30	G
ATOM	11695	C	LYS	G	97	100.219	108.433	158.448	1.00	86.24	G
ATOM	11696	O	LYS	G	97	101.433	108.609	158.453	1.00	84.80	G
ATOM	11697	N	LEU	G	98	99.465	108.514	159.535	1.00	86.72	G
ATOM	11698	CA	LEU	G	98	99.974	108.858	160.857	1.00	88.40	G
ATOM	11699	CB	LEU	G	98	98.840	108.662	161.875	1.00	91.68	G
ATOM	11700	CG	LEU	G	98	99.053	108.924	163.368	1.00	93.73	G
ATOM	11701	CD1	LEU	G	98	99.708	107.714	164.018	1.00	92.82	G
ATOM	11702	CD2	LEU	G	98	99.879	110.192	163.555	1.00	95.16	G
ATOM	11703	C	LEU	G	98	101.254	108.147	161.333	1.00	88.65	G
ATOM	11704	O	LEU	G	98	102.146	108.794	161.890	1.00	88.92	G
ATOM	11705	N	THR	G	99	101.350	106.832	161.131	1.00	87.28	G
ATOM	11706	CA	THR	G	99	102.537	106.077	161.561	1.00	84.34	G
ATOM	11707	CB	THR	G	99	102.173	104.668	162.107	1.00	85.41	G
ATOM	11708	OG1	THR	G	99	101.685	103.848	161.034	1.00	85.46	G
ATOM	11709	CG2	THR	G	99	101.109	104.764	163.198	1.00	80.16	G
ATOM	11710	C	THR	G	99	103.484	105.891	160.387	1.00	81.72	G
ATOM	11711	O	THR	G	99	104.220	104.906	160.308	1.00	80.87	G
ATOM	11712	N	GLU	G	100	103.448	106.848	159.471	1.00	80.60	G
ATOM	11713	CA	GLU	G	100	104.291	106.808	158.287	1.00	78.96	G
ATOM	11714	CB	GLU	G	100	103.426	106.726	157.030	1.00	82.22	G
ATOM	11715	CG	GLU	G	100	102.787	105.372	156.789	1.00	86.02	G
ATOM	11716	CD	GLU	G	100	101.783	105.401	155.652	1.00	87.19	G
ATOM	11717	OE1	GLU	G	100	102.134	105.888	154.557	1.00	89.23	G
ATOM	11718	OE2	GLU	G	100	100.643	104.932	155.855	1.00	89.54	G
ATOM	11719	C	GLU	G	100	105.182	108.030	158.183	1.00	74.42	G
ATOM	11720	O	GLU	G	100	104.947	109.042	158.835	1.00	72.57	G
ATOM	11721	N	ASN	G	101	106.217	107.915	157.364	1.00	72.78	G
ATOM	11722	CA	ASN	G	101	107.127	109.019	157.127	1.00	71.55	G
ATOM	11723	CB	ASN	G	101	108.478	108.495	156.666	1.00	71.82	G
ATOM	11724	CG	ASN	G	101	109.439	108.330	157.809	1.00	76.51	G
ATOM	11725	OD1	ASN	G	101	109.025	108.171	158.961	1.00	79.74	G

ATOM	11726	ND2	ASN	G	101	110.731	108.364	157.508	1.00	78.17	G
ATOM	11727	C	ASN	G	101	106.458	109.819	156.034	1.00	69.65	G
ATOM	11728	O	ASN	G	101	106.302	109.336	154.910	1.00	69.52	G
ATOM	11729	N	THR	G	102	106.052	111.039	156.364	1.00	65.38	G
ATOM	11730	CA	THR	G	102	105.349	111.869	155.395	1.00	60.98	G
ATOM	11731	CB	THR	G	102	103.872	111.997	155.779	1.00	62.49	G
ATOM	11732	OG1	THR	G	102	103.771	112.594	157.076	1.00	66.53	G
ATOM	11733	CG2	THR	G	102	103.214	110.627	155.822	1.00	67.37	G
ATOM	11734	C	THR	G	102	105.881	113.274	155.184	1.00	55.53	G
ATOM	11735	O	THR	G	102	106.641	113.812	155.995	1.00	49.70	G
ATOM	11736	N	LEU	G	103	105.476	113.850	154.058	1.00	54.69	G
ATOM	11737	CA	LEU	G	103	105.839	115.221	153.708	1.00	52.60	G
ATOM	11738	CB	LEU	G	103	106.870	115.296	152.575	1.00	47.25	G
ATOM	11739	CG	LEU	G	103	107.057	116.743	152.079	1.00	47.44	G
ATOM	11740	CD1	LEU	G	103	107.695	117.596	153.188	1.00	46.46	G
ATOM	11741	CD2	LEU	G	103	107.912	116.771	150.837	1.00	44.43	G
ATOM	11742	C	LEU	G	103	104.595	115.929	153.232	1.00	48.63	G
ATOM	11743	O	LEU	G	103	103.930	115.468	152.312	1.00	48.20	G
ATOM	11744	N	GLN	G	104	104.265	117.040	153.864	1.00	49.21	G
ATOM	11745	CA	GLN	G	104	103.109	117.789	153.416	1.00	49.74	G
ATOM	11746	CB	GLN	G	104	102.063	117.887	154.519	1.00	51.24	G
ATOM	11747	CG	GLN	G	104	100.821	117.070	154.195	1.00	49.69	G
ATOM	11748	CD	GLN	G	104	99.713	117.246	155.206	1.00	49.33	G
ATOM	11749	OE1	GLN	G	104	98.631	116.694	155.045	1.00	50.00	G
ATOM	11750	NE2	GLN	G	104	99.975	118.016	156.257	1.00	51.39	G
ATOM	11751	C	GLN	G	104	103.523	119.170	152.951	1.00	47.08	G
ATOM	11752	O	GLN	G	104	104.408	119.801	153.540	1.00	44.92	G
ATOM	11753	N	LEU	G	105	102.902	119.620	151.869	1.00	41.88	G
ATOM	11754	CA	LEU	G	105	103.201	120.937	151.354	1.00	40.38	G
ATOM	11755	CB	LEU	G	105	103.455	120.883	149.856	1.00	41.12	G
ATOM	11756	CG	LEU	G	105	104.641	120.050	149.381	1.00	41.02	G
ATOM	11757	CD1	LEU	G	105	104.793	120.246	147.883	1.00	42.78	G
ATOM	11758	CD2	LEU	G	105	105.911	120.477	150.092	1.00	40.64	G
ATOM	11759	C	LEU	G	105	102.019	121.845	151.627	1.00	38.86	G
ATOM	11760	O	LEU	G	105	100.893	121.388	151.744	1.00	42.13	G
ATOM	11761	N	ALA	G	106	102.299	123.131	151.757	1.00	36.14	G
ATOM	11762	CA	ALA	G	106	101.284	124.144	151.980	1.00	29.93	G
ATOM	11763	CB	ALA	G	106	101.430	124.752	153.366	1.00	28.87	G
ATOM	11764	C	ALA	G	106	101.568	125.192	150.912	1.00	29.92	G
ATOM	11765	O	ALA	G	106	102.574	125.913	150.960	1.00	30.56	G
ATOM	11766	N	ILE	G	107	100.693	125.264	149.926	1.00	29.95	G
ATOM	11767	CA	ILE	G	107	100.886	126.218	148.854	1.00	27.02	G
ATOM	11768	CB	ILE	G	107	100.054	125.849	147.632	1.00	26.49	G
ATOM	11769	CG2	ILE	G	107	100.545	126.648	146.426	1.00	20.21	G
ATOM	11770	CG1	ILE	G	107	100.180	124.348	147.353	1.00	23.98	G
ATOM	11771	CD1	ILE	G	107	101.566	123.915	146.932	1.00	18.99	G
ATOM	11772	C	ILE	G	107	100.455	127.582	149.324	1.00	28.97	G
ATOM	11773	O	ILE	G	107	99.465	127.719	150.040	1.00	32.51	G
ATOM	11774	N	ILE	G	108	101.204	128.593	148.911	1.00	29.72	G
ATOM	11775	CA	ILE	G	108	100.901	129.969	149.275	1.00	31.90	G
ATOM	11776	CB	ILE	G	108	101.945	130.522	150.277	1.00	30.73	G
ATOM	11777	CG2	ILE	G	108	101.560	131.943	150.713	1.00	21.72	G
ATOM	11778	CG1	ILE	G	108	102.074	129.568	151.467	1.00	25.35	G
ATOM	11779	CD1	ILE	G	108	103.298	129.837	152.321	1.00	19.52	G
ATOM	11780	C	ILE	G	108	100.966	130.826	148.020	1.00	30.62	G
ATOM	11781	O	ILE	G	108	101.810	130.595	147.153	1.00	29.69	G
ATOM	11782	N	SER	G	109	100.074	131.804	147.914	1.00	28.15	G
ATOM	11783	CA	SER	G	109	100.117	132.699	146.764	1.00	27.63	G

ATOM	11784	CB	SER	G	109	98.744	132.801	146.103	1.00	25.06	G
ATOM	11785	OG	SER	G	109	98.271	131.517	145.704	1.00	24.15	G
ATOM	11786	C	SER	G	109	100.531	134.024	147.386	1.00	28.45	G
ATOM	11787	O	SER	G	109	99.944	134.444	148.390	1.00	26.97	G
ATOM	11788	N	ARG	G	110	101.575	134.637	146.835	1.00	23.61	G
ATOM	11789	CA	ARG	G	110	102.079	135.908	147.335	1.00	24.07	G
ATOM	11790	CB	ARG	G	110	103.516	135.769	147.870	1.00	20.12	G
ATOM	11791	CG	ARG	G	110	104.387	137.019	147.625	1.00	25.51	G
ATOM	11792	CD	ARG	G	110	105.800	136.933	148.223	1.00	21.86	G
ATOM	11793	NE	ARG	G	110	105.713	136.892	149.676	1.00	32.34	G
ATOM	11794	CZ	ARG	G	110	106.305	137.739	150.511	1.00	30.35	G
ATOM	11795	NH1	ARG	G	110	107.070	138.728	150.069	1.00	19.16	G
ATOM	11796	NH2	ARG	G	110	106.081	137.613	151.806	1.00	29.17	G
ATOM	11797	C	ARG	G	110	102.060	136.900	146.186	1.00	30.25	G
ATOM	11798	O	ARG	G	110	102.762	136.727	145.181	1.00	30.32	G
ATOM	11799	N	ILE	G	111	101.260	137.950	146.347	1.00	31.93	G
ATOM	11800	CA	ILE	G	111	101.144	138.963	145.318	1.00	30.17	G
ATOM	11801	CB	ILE	G	111	99.766	138.894	144.679	1.00	32.14	G
ATOM	11802	CG2	ILE	G	111	99.575	137.520	144.032	1.00	28.56	G
ATOM	11803	CG1	ILE	G	111	98.697	139.149	145.737	1.00	27.58	G
ATOM	11804	CD1	ILE	G	111	97.297	139.238	145.171	1.00	24.82	G
ATOM	11805	C	ILE	G	111	101.383	140.372	145.829	1.00	26.93	G
ATOM	11806	O	ILE	G	111	101.231	140.651	147.011	1.00	27.18	G
ATOM	11807	N	LYS	G	112	101.753	141.265	144.926	1.00	26.18	G
ATOM	11808	CA	LYS	G	112	102.008	142.638	145.316	1.00	28.55	G
ATOM	11809	CB	LYS	G	112	102.670	143.407	144.182	1.00	24.11	G
ATOM	11810	CG	LYS	G	112	103.824	142.698	143.518	1.00	26.60	G
ATOM	11811	CD	LYS	G	112	104.275	143.517	142.319	1.00	37.22	G
ATOM	11812	CE	LYS	G	112	105.343	142.825	141.505	1.00	42.49	G
ATOM	11813	NZ	LYS	G	112	105.755	143.661	140.340	1.00	43.11	G
ATOM	11814	C	LYS	G	112	100.709	143.344	145.686	1.00	28.42	G
ATOM	11815	O	LYS	G	112	99.646	143.068	145.145	1.00	32.28	G
ATOM	11816	N	LEU	G	113	100.806	144.248	146.638	1.00	27.06	G
ATOM	11817	CA	LEU	G	113	99.672	145.031	147.062	1.00	28.76	G
ATOM	11818	CB	LEU	G	113	99.220	144.608	148.454	1.00	27.59	G
ATOM	11819	CG	LEU	G	113	98.283	145.558	149.202	1.00	27.84	G
ATOM	11820	CD1	LEU	G	113	97.292	146.172	148.252	1.00	42.24	G
ATOM	11821	CD2	LEU	G	113	97.531	144.784	150.264	1.00	32.90	G
ATOM	11822	C	LEU	G	113	100.213	146.449	147.092	1.00	33.03	G
ATOM	11823	O	LEU	G	113	101.162	146.725	147.824	1.00	40.28	G
ATOM	11824	N	TYR	G	114	99.666	147.341	146.270	1.00	29.46	G
ATOM	11825	CA	TYR	G	114	100.152	148.712	146.301	1.00	32.39	G
ATOM	11826	CB	TYR	G	114	100.358	149.291	144.902	1.00	27.99	G
ATOM	11827	CG	TYR	G	114	101.355	148.572	144.046	1.00	26.51	G
ATOM	11828	CD1	TYR	G	114	100.938	147.813	142.963	1.00	21.57	G
ATOM	11829	CE1	TYR	G	114	101.844	147.156	142.167	1.00	24.58	G
ATOM	11830	CD2	TYR	G	114	102.719	148.658	144.309	1.00	30.42	G
ATOM	11831	CE2	TYR	G	114	103.647	148.002	143.504	1.00	30.15	G
ATOM	11832	CZ	TYR	G	114	103.194	147.251	142.436	1.00	28.58	G
ATOM	11833	OH	TYR	G	114	104.074	146.577	141.626	1.00	36.73	G
ATOM	11834	C	TYR	G	114	99.180	149.615	147.034	1.00	37.02	G
ATOM	11835	O	TYR	G	114	97.962	149.538	146.844	1.00	37.17	G
ATOM	11836	N	TYR	G	115	99.729	150.455	147.896	1.00	40.94	G
ATOM	11837	CA	TYR	G	115	98.939	151.434	148.620	1.00	43.42	G
ATOM	11838	CB	TYR	G	115	99.591	151.742	149.964	1.00	42.86	G
ATOM	11839	CG	TYR	G	115	98.891	152.822	150.741	1.00	46.71	G
ATOM	11840	CD1	TYR	G	115	97.658	152.578	151.352	1.00	48.42	G
ATOM	11841	CE1	TYR	G	115	96.999	153.566	152.062	1.00	47.54	G

ATOM	11842	CD2	TYR	G	115	99.450	154.098	150.862	1.00	48.98	G
ATOM	11843	CE2	TYR	G	115	98.796	155.102	151.575	1.00	46.60	G
ATOM	11844	CZ	TYR	G	115	97.571	154.826	152.171	1.00	49.30	G
ATOM	11845	OH	TYR	G	115	96.906	155.800	152.874	1.00	51.50	G
ATOM	11846	C	TYR	G	115	99.100	152.623	147.680	1.00	45.88	G
ATOM	11847	O	TYR	G	115	100.199	153.158	147.543	1.00	48.63	G
ATOM	11848	N	ARG	G	116	98.031	153.013	146.998	1.00	50.40	G
ATOM	11849	CA	ARG	G	116	98.108	154.126	146.057	1.00	50.95	G
ATOM	11850	CB	ARG	G	116	97.447	153.739	144.735	1.00	53.43	G
ATOM	11851	CG	ARG	G	116	97.479	154.836	143.674	1.00	55.06	G
ATOM	11852	CD	ARG	G	116	97.050	154.290	142.322	1.00	48.62	G
ATOM	11853	NE	ARG	G	116	98.036	153.354	141.800	1.00	47.77	G
ATOM	11854	CZ	ARG	G	116	97.771	152.428	140.886	1.00	45.61	G
ATOM	11855	NH1	ARG	G	116	96.547	152.319	140.399	1.00	43.12	G
ATOM	11856	NH2	ARG	G	116	98.724	151.611	140.457	1.00	42.20	G
ATOM	11857	C	ARG	G	116	97.462	155.381	146.596	1.00	52.47	G
ATOM	11858	O	ARG	G	116	96.244	155.504	146.599	1.00	53.68	G
ATOM	11859	N	PRO	G	117	98.276	156.335	147.065	1.00	58.13	G
ATOM	11860	CD	PRO	G	117	99.749	156.362	147.049	1.00	59.63	G
ATOM	11861	CA	PRO	G	117	97.741	157.587	147.606	1.00	64.15	G
ATOM	11862	CB	PRO	G	117	98.986	158.457	147.765	1.00	61.78	G
ATOM	11863	CG	PRO	G	117	100.054	157.471	148.030	1.00	60.55	G
ATOM	11864	C	PRO	G	117	96.783	158.172	146.591	1.00	69.16	G
ATOM	11865	O	PRO	G	117	97.211	158.680	145.562	1.00	72.32	G
ATOM	11866	N	ALA	G	118	95.491	158.081	146.863	1.00	75.02	G
ATOM	11867	CA	ALA	G	118	94.502	158.615	145.939	1.00	81.35	G
ATOM	11868	CB	ALA	G	118	93.101	158.127	146.331	1.00	85.40	G
ATOM	11869	C	ALA	G	118	94.567	160.143	145.967	1.00	83.08	G
ATOM	11870	O	ALA	G	118	93.886	160.778	146.774	1.00	83.98	G
ATOM	11871	N	LYS	G	119	95.388	160.721	145.086	1.00	83.77	G
ATOM	11872	CA	LYS	G	119	95.561	162.173	145.008	1.00	82.54	G
ATOM	11873	CB	LYS	G	119	95.789	162.743	146.409	1.00	83.09	G
ATOM	11874	CG	LYS	G	119	95.490	164.230	146.557	1.00	84.62	G
ATOM	11875	CD	LYS	G	119	93.998	164.497	146.701	1.00	82.61	G
ATOM	11876	CE	LYS	G	119	93.744	165.923	147.192	1.00	87.30	G
ATOM	11877	NZ	LYS	G	119	92.309	166.209	147.509	1.00	88.42	G
ATOM	11878	C	LYS	G	119	96.765	162.526	144.128	1.00	82.39	G
ATOM	11879	O	LYS	G	119	97.293	163.638	144.194	1.00	83.60	G
ATOM	11880	N	LEU	G	120	97.197	161.582	143.300	1.00	80.79	G
ATOM	11881	CA	LEU	G	120	98.354	161.803	142.437	1.00	77.41	G
ATOM	11882	CB	LEU	G	120	99.117	160.490	142.259	1.00	76.72	G
ATOM	11883	CG	LEU	G	120	99.309	159.682	143.549	1.00	74.33	G
ATOM	11884	CD1	LEU	G	120	100.041	158.388	143.243	1.00	72.18	G
ATOM	11885	CD2	LEU	G	120	100.071	160.506	144.570	1.00	71.59	G
ATOM	11886	C	LEU	G	120	97.951	162.360	141.079	1.00	75.93	G
ATOM	11887	O	LEU	G	120	96.857	162.085	140.578	1.00	75.20	G
ATOM	11888	N	ALA	G	121	98.848	163.136	140.480	1.00	74.63	G
ATOM	11889	CA	ALA	G	121	98.590	163.754	139.183	1.00	71.44	G
ATOM	11890	CB	ALA	G	121	99.565	164.905	138.959	1.00	68.99	G
ATOM	11891	C	ALA	G	121	98.683	162.765	138.030	1.00	68.34	G
ATOM	11892	O	ALA	G	121	97.681	162.383	137.434	1.00	68.34	G
ATOM	11893	N	LEU	G	122	99.900	162.356	137.718	1.00	66.67	G
ATOM	11894	CA	LEU	G	122	100.123	161.431	136.627	1.00	67.30	G
ATOM	11895	CB	LEU	G	122	101.602	161.058	136.577	1.00	65.44	G
ATOM	11896	CG	LEU	G	122	102.008	159.886	135.688	1.00	65.55	G
ATOM	11897	CD1	LEU	G	122	101.208	159.903	134.397	1.00	68.15	G
ATOM	11898	CD2	LEU	G	122	103.508	159.964	135.425	1.00	68.82	G
ATOM	11899	C	LEU	G	122	99.270	160.175	136.729	1.00	69.14	G

ATOM	11900	O	LEU	G	122	99.498	159.339	137.590	1.00	72.01	G
ATOM	11901	N	PRO	G	123	98.280	160.021	135.837	1.00	70.38	G
ATOM	11902	CD	PRO	G	123	97.905	160.935	134.743	1.00	71.15	G
ATOM	11903	CA	PRO	G	123	97.407	158.840	135.854	1.00	71.25	G
ATOM	11904	CB	PRO	G	123	96.305	159.224	134.871	1.00	71.74	G
ATOM	11905	CG	PRO	G	123	97.044	160.046	133.859	1.00	72.41	G
ATOM	11906	C	PRO	G	123	98.156	157.557	135.446	1.00	69.65	G
ATOM	11907	O	PRO	G	123	98.845	157.522	134.426	1.00	71.09	G
ATOM	11908	N	PRO	G	124	98.007	156.485	136.236	1.00	66.74	G
ATOM	11909	CD	PRO	G	124	96.969	156.371	137.269	1.00	66.20	G
ATOM	11910	CA	PRO	G	124	98.650	155.187	136.010	1.00	64.85	G
ATOM	11911	CB	PRO	G	124	97.760	154.212	136.789	1.00	63.91	G
ATOM	11912	CG	PRO	G	124	96.492	154.980	137.039	1.00	68.03	G
ATOM	11913	C	PRO	G	124	98.866	154.768	134.562	1.00	63.81	G
ATOM	11914	O	PRO	G	124	99.913	154.231	134.208	1.00	61.78	G
ATOM	11915	N	ASP	G	125	97.878	155.009	133.723	1.00	67.46	G
ATOM	11916	CA	ASP	G	125	97.986	154.659	132.310	1.00	73.46	G
ATOM	11917	CB	ASP	G	125	96.735	155.129	131.593	1.00	79.95	G
ATOM	11918	CG	ASP	G	125	96.456	156.596	131.856	1.00	86.89	G
ATOM	11919	OD1	ASP	G	125	97.215	157.459	131.357	1.00	87.34	G
ATOM	11920	OD2	ASP	G	125	95.489	156.888	132.588	1.00	92.25	G
ATOM	11921	C	ASP	G	125	99.187	155.352	131.670	1.00	73.78	G
ATOM	11922	O	ASP	G	125	99.865	154.797	130.804	1.00	74.01	G
ATOM	11923	N	GLN	G	126	99.428	156.577	132.114	1.00	73.28	G
ATOM	11924	CA	GLN	G	126	100.490	157.427	131.599	1.00	75.03	G
ATOM	11925	CB	GLN	G	126	99.962	158.872	131.658	1.00	79.75	G
ATOM	11926	CG	GLN	G	126	100.801	159.978	131.014	1.00	84.72	G
ATOM	11927	CD	GLN	G	126	100.110	161.338	131.111	1.00	86.68	G
ATOM	11928	OE1	GLN	G	126	100.724	162.387	130.885	1.00	86.35	G
ATOM	11929	NE2	GLN	G	126	98.820	161.319	131.446	1.00	86.01	G
ATOM	11930	C	GLN	G	126	101.828	157.283	132.352	1.00	75.32	G
ATOM	11931	O	GLN	G	126	102.573	158.255	132.496	1.00	76.44	G
ATOM	11932	N	ALA	G	127	102.150	156.073	132.811	1.00	73.19	G
ATOM	11933	CA	ALA	G	127	103.392	155.860	133.562	1.00	68.26	G
ATOM	11934	CB	ALA	G	127	103.083	155.145	134.868	1.00	61.97	G
ATOM	11935	C	ALA	G	127	104.511	155.126	132.817	1.00	67.00	G
ATOM	11936	O	ALA	G	127	105.662	155.552	132.854	1.00	66.81	G
ATOM	11937	N	ALA	G	128	104.186	154.035	132.137	1.00	66.09	G
ATOM	11938	CA	ALA	G	128	105.200	153.279	131.412	1.00	68.37	G
ATOM	11939	CB	ALA	G	128	104.543	152.166	130.608	1.00	63.20	G
ATOM	11940	C	ALA	G	128	106.050	154.162	130.492	1.00	73.32	G
ATOM	11941	O	ALA	G	128	107.269	153.997	130.420	1.00	74.75	G
ATOM	11942	N	GLU	G	129	105.404	155.097	129.799	1.00	76.81	G
ATOM	11943	CA	GLU	G	129	106.086	156.002	128.873	1.00	78.80	G
ATOM	11944	CB	GLU	G	129	105.100	157.006	128.295	1.00	85.39	G
ATOM	11945	CG	GLU	G	129	103.659	156.551	128.305	1.00	101.27	G
ATOM	11946	CD	GLU	G	129	102.692	157.728	128.290	1.00	107.44	G
ATOM	11947	OE1	GLU	G	129	101.473	157.497	128.105	1.00	111.60	G
ATOM	11948	OE2	GLU	G	129	103.157	158.879	128.477	1.00	108.90	G
ATOM	11949	C	GLU	G	129	107.191	156.799	129.556	1.00	78.44	G
ATOM	11950	O	GLU	G	129	108.268	157.003	128.990	1.00	79.64	G
ATOM	11951	N	LYS	G	130	106.904	157.268	130.768	1.00	74.25	G
ATOM	11952	CA	LYS	G	130	107.847	158.073	131.534	1.00	69.49	G
ATOM	11953	CB	LYS	G	130	107.196	158.547	132.835	1.00	73.03	G
ATOM	11954	CG	LYS	G	130	105.865	159.278	132.653	1.00	76.18	G
ATOM	11955	CD	LYS	G	130	106.053	160.646	132.011	1.00	77.28	G
ATOM	11956	CE	LYS	G	130	104.721	161.323	131.726	1.00	77.23	G
ATOM	11957	NZ	LYS	G	130	104.915	162.683	131.140	1.00	76.34	G

ATOM	11958	C	LYS	G	130	109.128	157.330	131.866	1.00	65.86	G
ATOM	11959	O	LYS	G	130	110.035	157.900	132.468	1.00	63.81	G
ATOM	11960	N	LEU	G	131	109.204	156.065	131.469	1.00	64.66	G
ATOM	11961	CA	LEU	G	131	110.380	155.254	131.752	1.00	66.98	G
ATOM	11962	CB	LEU	G	131	110.058	153.767	131.608	1.00	64.08	G
ATOM	11963	CG	LEU	G	131	111.205	152.869	132.096	1.00	61.82	G
ATOM	11964	CD1	LEU	G	131	111.298	152.966	133.622	1.00	55.70	G
ATOM	11965	CD2	LEU	G	131	110.978	151.433	131.662	1.00	57.48	G
ATOM	11966	C	LEU	G	131	111.577	155.561	130.876	1.00	70.49	G
ATOM	11967	O	LEU	G	131	111.592	155.209	129.697	1.00	74.44	G
ATOM	11968	N	ARG	G	132	112.590	156.195	131.454	1.00	73.42	G
ATOM	11969	CA	ARG	G	132	113.799	156.521	130.706	1.00	80.13	G
ATOM	11970	CB	ARG	G	132	114.297	157.911	131.100	1.00	85.21	G
ATOM	11971	CG	ARG	G	132	113.247	159.006	130.961	1.00	91.69	G
ATOM	11972	CD	ARG	G	132	113.659	160.260	131.734	1.00	98.55	G
ATOM	11973	NE	ARG	G	132	112.520	161.132	132.022	1.00	102.81	G
ATOM	11974	CZ	ARG	G	132	112.560	162.170	132.856	1.00	104.54	G
ATOM	11975	NH1	ARG	G	132	113.687	162.478	133.491	1.00	103.78	G
ATOM	11976	NH2	ARG	G	132	111.466	162.893	133.065	1.00	106.09	G
ATOM	11977	C	ARG	G	132	114.867	155.468	131.008	1.00	80.58	G
ATOM	11978	O	ARG	G	132	114.592	154.475	131.684	1.00	78.38	G
ATOM	11979	N	PHE	G	133	116.081	155.679	130.510	1.00	82.44	G
ATOM	11980	CA	PHE	G	133	117.157	154.723	130.739	1.00	87.87	G
ATOM	11981	CB	PHE	G	133	117.231	153.723	129.584	1.00	87.31	G
ATOM	11982	CG	PHE	G	133	116.046	152.811	129.498	1.00	87.90	G
ATOM	11983	CD1	PHE	G	133	114.814	153.287	129.064	1.00	87.56	G
ATOM	11984	CD2	PHE	G	133	116.156	151.476	129.879	1.00	89.19	G
ATOM	11985	CE1	PHE	G	133	113.707	152.449	129.014	1.00	89.35	G
ATOM	11986	CE2	PHE	G	133	115.058	150.623	129.835	1.00	87.91	G
ATOM	11987	CZ	PHE	G	133	113.829	151.109	129.402	1.00	90.43	G
ATOM	11988	C	PHE	G	133	118.539	155.334	130.951	1.00	92.29	G
ATOM	11989	O	PHE	G	133	118.684	156.524	131.237	1.00	94.77	G
ATOM	11990	N	ARG	G	134	119.550	154.486	130.809	1.00	94.20	G
ATOM	11991	CA	ARG	G	134	120.953	154.855	130.972	1.00	97.43	G
ATOM	11992	CB	ARG	G	134	121.227	155.314	132.401	1.00	95.44	G
ATOM	11993	CG	ARG	G	134	122.698	155.494	132.716	1.00	95.32	G
ATOM	11994	CD	ARG	G	134	122.912	155.490	134.217	1.00	98.10	G
ATOM	11995	NE	ARG	G	134	122.168	156.559	134.876	1.00	99.94	G
ATOM	11996	CZ	ARG	G	134	121.853	156.559	136.168	1.00	101.40	G
ATOM	11997	NH1	ARG	G	134	122.215	155.541	136.941	1.00	100.16	G
ATOM	11998	NH2	ARG	G	134	121.181	157.578	136.688	1.00	100.15	G
ATOM	11999	C	ARG	G	134	121.711	153.567	130.696	1.00	100.90	G
ATOM	12000	O	ARG	G	134	121.982	152.783	131.611	1.00	102.28	G
ATOM	12001	N	ARG	G	135	122.057	153.353	129.432	1.00	102.91	G
ATOM	12002	CA	ARG	G	135	122.732	152.123	129.037	1.00	103.24	G
ATOM	12003	CB	ARG	G	135	122.061	151.574	127.781	1.00	104.38	G
ATOM	12004	CG	ARG	G	135	122.293	152.400	126.536	1.00	101.96	G
ATOM	12005	CD	ARG	G	135	123.113	151.584	125.585	1.00	102.87	G
ATOM	12006	NE	ARG	G	135	122.488	150.282	125.406	1.00	102.03	G
ATOM	12007	CZ	ARG	G	135	123.121	149.201	124.974	1.00	102.89	G
ATOM	12008	NH1	ARG	G	135	122.459	148.060	124.846	1.00	103.92	G
ATOM	12009	NH2	ARG	G	135	124.413	149.259	124.677	1.00	103.06	G
ATOM	12010	C	ARG	G	135	124.233	152.192	128.808	1.00	103.21	G
ATOM	12011	O	ARG	G	135	124.698	152.883	127.904	1.00	104.47	G
ATOM	12012	N	SER	G	136	124.982	151.463	129.633	1.00	102.50	G
ATOM	12013	CA	SER	G	136	126.436	151.400	129.508	1.00	102.73	G
ATOM	12014	CB	SER	G	136	127.099	151.290	130.888	1.00	101.17	G
ATOM	12015	OG	SER	G	136	127.017	152.511	131.603	1.00	101.04	G

ATOM	12016	C	SER	G	136	126.765	150.160	128.674	1.00103.59	G
ATOM	12017	O	SER	G	136	126.076	149.862	127.696	1.00103.45	G
ATOM	12018	N	ALA	G	137	127.816	149.443	129.055	1.00104.10	G
ATOM	12019	CA	ALA	G	137	128.204	148.226	128.348	1.00105.16	G
ATOM	12020	CB	ALA	G	137	129.644	148.331	127.868	1.00104.98	G
ATOM	12021	C	ALA	G	137	128.057	147.064	129.325	1.00105.81	G
ATOM	12022	O	ALA	G	137	128.528	145.952	129.070	1.00105.85	G
ATOM	12023	N	ASN	G	138	127.389	147.344	130.443	1.00105.36	G
ATOM	12024	CA	ASN	G	138	127.171	146.359	131.494	1.00103.83	G
ATOM	12025	CB	ASN	G	138	128.501	146.035	132.184	1.00103.68	G
ATOM	12026	CG	ASN	G	138	129.314	147.285	132.517	1.00103.06	G
ATOM	12027	OD1	ASN	G	138	128.843	148.201	133.206	1.00 99.57	G
ATOM	12028	ND2	ASN	G	138	130.546	147.322	132.027	1.00 99.11	G
ATOM	12029	C	ASN	G	138	126.163	146.814	132.546	1.00101.80	G
ATOM	12030	O	ASN	G	138	125.606	145.994	133.275	1.00 99.92	G
ATOM	12031	N	SER	G	139	125.913	148.116	132.615	1.00100.80	G
ATOM	12032	CA	SER	G	139	125.000	148.632	133.625	1.00 99.51	G
ATOM	12033	CB	SER	G	139	125.809	149.401	134.671	1.00 98.25	G
ATOM	12034	OG	SER	G	139	126.922	148.634	135.100	1.00 98.99	G
ATOM	12035	C	SER	G	139	123.836	149.500	133.140	1.00 98.58	G
ATOM	12036	O	SER	G	139	123.850	150.719	133.318	1.00 99.45	G
ATOM	12037	N	LEU	G	140	122.829	148.869	132.536	1.00 95.60	G
ATOM	12038	CA	LEU	G	140	121.642	149.583	132.065	1.00 90.82	G
ATOM	12039	CB	LEU	G	140	120.833	148.695	131.129	1.00 89.45	G
ATOM	12040	CG	LEU	G	140	119.731	149.392	130.333	1.00 91.51	G
ATOM	12041	CD1	LEU	G	140	118.986	148.353	129.499	1.00 89.36	G
ATOM	12042	CD2	LEU	G	140	118.781	150.122	131.275	1.00 93.29	G
ATOM	12043	C	LEU	G	140	120.818	149.898	133.317	1.00 88.54	G
ATOM	12044	O	LEU	G	140	120.481	148.999	134.086	1.00 91.76	G
ATOM	12045	N	THR	G	141	120.472	151.162	133.514	1.00 83.80	G
ATOM	12046	CA	THR	G	141	119.740	151.545	134.711	1.00 80.99	G
ATOM	12047	CB	THR	G	141	120.561	152.588	135.522	1.00 80.27	G
ATOM	12048	OG1	THR	G	141	121.842	152.031	135.847	1.00 79.76	G
ATOM	12049	CG2	THR	G	141	119.838	152.977	136.815	1.00 78.74	G
ATOM	12050	C	THR	G	141	118.326	152.083	134.508	1.00 80.51	G
ATOM	12051	O	THR	G	141	118.136	153.286	134.293	1.00 80.07	G
ATOM	12052	N	LEU	G	142	117.337	151.190	134.598	1.00 77.65	G
ATOM	12053	CA	LEU	G	142	115.930	151.574	134.460	1.00 74.36	G
ATOM	12054	CB	LEU	G	142	115.003	150.418	134.859	1.00 69.72	G
ATOM	12055	CG	LEU	G	142	115.025	149.027	134.196	1.00 71.60	G
ATOM	12056	CD1	LEU	G	142	114.335	149.060	132.849	1.00 66.16	G
ATOM	12057	CD2	LEU	G	142	116.460	148.519	134.080	1.00 67.71	G
ATOM	12058	C	LEU	G	142	115.699	152.751	135.411	1.00 73.97	G
ATOM	12059	O	LEU	G	142	116.121	152.718	136.566	1.00 72.95	G
ATOM	12060	N	ILE	G	143	115.039	153.795	134.928	1.00 74.25	G
ATOM	12061	CA	ILE	G	143	114.789	154.968	135.756	1.00 73.94	G
ATOM	12062	CB	ILE	G	143	115.703	156.142	135.319	1.00 73.32	G
ATOM	12063	CG2	ILE	G	143	115.941	156.075	133.831	1.00 75.33	G
ATOM	12064	CG1	ILE	G	143	115.096	157.487	135.730	1.00 71.36	G
ATOM	12065	CD1	ILE	G	143	115.069	157.731	137.226	1.00 75.77	G
ATOM	12066	C	ILE	G	143	113.328	155.390	135.696	1.00 73.86	G
ATOM	12067	O	ILE	G	143	112.819	155.758	134.640	1.00 75.74	G
ATOM	12068	N	ASN	G	144	112.664	155.338	136.846	1.00 71.92	G
ATOM	12069	CA	ASN	G	144	111.253	155.688	136.956	1.00 68.75	G
ATOM	12070	CB	ASN	G	144	110.471	154.484	137.488	1.00 65.98	G
ATOM	12071	CG	ASN	G	144	109.042	154.818	137.830	1.00 65.57	G
ATOM	12072	OD1	ASN	G	144	108.537	155.885	137.480	1.00 63.76	G
ATOM	12073	ND2	ASN	G	144	108.372	153.895	138.516	1.00 65.62	G

ATOM	12074	C	ASN	G	144	111.036	156.897	137.854	1.00	68.46	G
ATOM	12075	O	ASN	G	144	111.273	156.840	139.060	1.00	68.40	G
ATOM	12076	N	PRO	G	145	110.584	158.018	137.265	1.00	69.59	G
ATOM	12077	CD	PRO	G	145	110.606	158.222	135.803	1.00	69.26	G
ATOM	12078	CA	PRO	G	145	110.314	159.287	137.954	1.00	69.37	G
ATOM	12079	CB	PRO	G	145	110.695	160.316	136.908	1.00	68.41	G
ATOM	12080	CG	PRO	G	145	110.154	159.664	135.657	1.00	69.78	G
ATOM	12081	C	PRO	G	145	108.864	159.463	138.404	1.00	69.99	G
ATOM	12082	O	PRO	G	145	108.541	160.408	139.124	1.00	72.52	G
ATOM	12083	N	THR	G	146	107.990	158.564	137.969	1.00	68.71	G
ATOM	12084	CA	THR	G	146	106.576	158.639	138.326	1.00	65.38	G
ATOM	12085	CB	THR	G	146	105.760	157.686	137.456	1.00	63.89	G
ATOM	12086	OG1	THR	G	146	105.659	156.417	138.106	1.00	54.55	G
ATOM	12087	CG2	THR	G	146	106.452	157.484	136.112	1.00	64.51	G
ATOM	12088	C	THR	G	146	106.404	158.225	139.779	1.00	66.52	G
ATOM	12089	O	THR	G	146	107.384	158.033	140.490	1.00	70.61	G
ATOM	12090	N	PRO	G	147	105.157	158.109	140.252	1.00	65.33	G
ATOM	12091	CD	PRO	G	147	104.000	158.901	139.803	1.00	65.87	G
ATOM	12092	CA	PRO	G	147	104.971	157.699	141.647	1.00	63.07	G
ATOM	12093	CB	PRO	G	147	104.007	158.741	142.172	1.00	64.87	G
ATOM	12094	CG	PRO	G	147	103.068	158.854	141.018	1.00	65.77	G
ATOM	12095	C	PRO	G	147	104.387	156.293	141.743	1.00	60.39	G
ATOM	12096	O	PRO	G	147	103.757	155.951	142.744	1.00	59.95	G
ATOM	12097	N	TYR	G	148	104.591	155.488	140.702	1.00	57.58	G
ATOM	12098	CA	TYR	G	148	104.076	154.117	140.677	1.00	57.12	G
ATOM	12099	CB	TYR	G	148	103.065	153.915	139.543	1.00	52.80	G
ATOM	12100	CG	TYR	G	148	101.959	154.927	139.474	1.00	57.87	G
ATOM	12101	CD1	TYR	G	148	102.182	156.209	138.962	1.00	58.42	G
ATOM	12102	CE1	TYR	G	148	101.151	157.146	138.902	1.00	56.59	G
ATOM	12103	CD2	TYR	G	148	100.679	154.607	139.923	1.00	60.57	G
ATOM	12104	CE2	TYR	G	148	99.641	155.538	139.870	1.00	60.01	G
ATOM	12105	CZ	TYR	G	148	99.886	156.801	139.363	1.00	59.51	G
ATOM	12106	OH	TYR	G	148	98.865	157.716	139.355	1.00	65.73	G
ATOM	12107	C	TYR	G	148	105.181	153.088	140.482	1.00	56.01	G
ATOM	12108	O	TYR	G	148	106.188	153.352	139.823	1.00	56.98	G
ATOM	12109	N	TYR	G	149	104.985	151.904	141.044	1.00	51.69	G
ATOM	12110	CA	TYR	G	149	105.968	150.855	140.872	1.00	48.00	G
ATOM	12111	CB	TYR	G	149	105.727	149.701	141.858	1.00	45.91	G
ATOM	12112	CG	TYR	G	149	106.402	149.879	143.195	1.00	44.96	G
ATOM	12113	CD1	TYR	G	149	105.822	150.644	144.195	1.00	46.89	G
ATOM	12114	CE1	TYR	G	149	106.478	150.853	145.418	1.00	48.37	G
ATOM	12115	CD2	TYR	G	149	107.655	149.319	143.443	1.00	48.78	G
ATOM	12116	CE2	TYR	G	149	108.319	149.525	144.663	1.00	43.63	G
ATOM	12117	CZ	TYR	G	149	107.727	150.289	145.642	1.00	42.23	G
ATOM	12118	OH	TYR	G	149	108.363	150.480	146.850	1.00	42.41	G
ATOM	12119	C	TYR	G	149	105.855	150.351	139.436	1.00	44.62	G
ATOM	12120	O	TYR	G	149	104.779	149.965	138.987	1.00	46.01	G
ATOM	12121	N	LEU	G	150	106.963	150.357	138.712	1.00	39.63	G
ATOM	12122	CA	LEU	G	150	106.923	149.880	137.346	1.00	38.98	G
ATOM	12123	CB	LEU	G	150	107.753	150.790	136.428	1.00	39.49	G
ATOM	12124	CG	LEU	G	150	107.267	152.246	136.274	1.00	48.25	G
ATOM	12125	CD1	LEU	G	150	108.153	152.961	135.271	1.00	47.76	G
ATOM	12126	CD2	LEU	G	150	105.806	152.297	135.800	1.00	43.15	G
ATOM	12127	C	LEU	G	150	107.412	148.447	137.254	1.00	37.35	G
ATOM	12128	O	LEU	G	150	108.562	148.137	137.590	1.00	36.68	G
ATOM	12129	N	THR	G	151	106.526	147.562	136.817	1.00	36.73	G
ATOM	12130	CA	THR	G	151	106.907	146.175	136.666	1.00	38.88	G
ATOM	12131	CB	THR	G	151	105.735	145.216	137.004	1.00	37.72	G

ATOM	12132	OG1	THR	G	151	105.282	145.451	138.341	1.00	38.01	G
ATOM	12133	CG2	THR	G	151	106.184	143.769	136.895	1.00	37.86	G
ATOM	12134	C	THR	G	151	107.337	145.995	135.213	1.00	43.48	G
ATOM	12135	O	THR	G	151	106.549	145.588	134.359	1.00	44.72	G
ATOM	12136	N	VAL	G	152	108.592	146.334	134.940	1.00	47.23	G
ATOM	12137	CA	VAL	G	152	109.164	146.217	133.605	1.00	49.52	G
ATOM	12138	CB	VAL	G	152	110.494	146.987	133.503	1.00	51.93	G
ATOM	12139	CG1	VAL	G	152	111.183	146.654	132.194	1.00	50.66	G
ATOM	12140	CG2	VAL	G	152	110.246	148.489	133.620	1.00	45.01	G
ATOM	12141	C	VAL	G	152	109.443	144.764	133.266	1.00	51.64	G
ATOM	12142	O	VAL	G	152	110.185	144.097	133.969	1.00	54.65	G
ATOM	12143	N	THR	G	153	108.843	144.286	132.186	1.00	54.86	G
ATOM	12144	CA	THR	G	153	109.028	142.916	131.736	1.00	58.48	G
ATOM	12145	CB	THR	G	153	107.763	142.065	132.034	1.00	59.98	G
ATOM	12146	OG1	THR	G	153	107.972	140.702	131.625	1.00	59.96	G
ATOM	12147	CG2	THR	G	153	106.552	142.644	131.310	1.00	60.31	G
ATOM	12148	C	THR	G	153	109.310	142.948	130.225	1.00	63.68	G
ATOM	12149	O	THR	G	153	109.150	143.990	129.574	1.00	62.88	G
ATOM	12150	N	GLU	G	154	109.737	141.807	129.680	1.00	68.07	G
ATOM	12151	CA	GLU	G	154	110.071	141.677	128.259	1.00	69.62	G
ATOM	12152	CB	GLU	G	154	108.806	141.668	127.399	1.00	66.47	G
ATOM	12153	CG	GLU	G	154	107.957	140.430	127.591	1.00	71.83	G
ATOM	12154	CD	GLU	G	154	107.013	140.183	126.429	1.00	77.77	G
ATOM	12155	OE1	GLU	G	154	106.250	139.188	126.470	1.00	74.09	G
ATOM	12156	OE2	GLU	G	154	107.042	140.984	125.470	1.00	82.82	G
ATOM	12157	C	GLU	G	154	111.005	142.788	127.797	1.00	71.86	G
ATOM	12158	O	GLU	G	154	110.824	143.371	126.730	1.00	74.59	G
ATOM	12159	N	LEU	G	155	112.007	143.075	128.618	1.00	74.09	G
ATOM	12160	CA	LEU	G	155	112.986	144.111	128.312	1.00	76.74	G
ATOM	12161	CB	LEU	G	155	113.715	144.540	129.586	1.00	70.99	G
ATOM	12162	CG	LEU	G	155	114.665	145.727	129.483	1.00	66.79	G
ATOM	12163	CD1	LEU	G	155	113.870	146.990	129.144	1.00	68.58	G
ATOM	12164	CD2	LEU	G	155	115.405	145.898	130.799	1.00	64.00	G
ATOM	12165	C	LEU	G	155	113.987	143.534	127.326	1.00	81.53	G
ATOM	12166	O	LEU	G	155	114.300	142.345	127.382	1.00	82.06	G
ATOM	12167	N	ASN	G	156	114.494	144.373	126.428	1.00	87.29	G
ATOM	12168	CA	ASN	G	156	115.462	143.916	125.437	1.00	90.01	G
ATOM	12169	CB	ASN	G	156	114.724	143.366	124.225	1.00	86.88	G
ATOM	12170	CG	ASN	G	156	113.651	142.381	124.614	1.00	88.28	G
ATOM	12171	OD1	ASN	G	156	113.943	141.309	125.141	1.00	87.99	G
ATOM	12172	ND2	ASN	G	156	112.396	142.744	124.375	1.00	88.64	G
ATOM	12173	C	ASN	G	156	116.412	145.023	125.007	1.00	92.96	G
ATOM	12174	O	ASN	G	156	115.996	146.165	124.790	1.00	90.94	G
ATOM	12175	N	ALA	G	157	117.691	144.672	124.900	1.00	97.54	G
ATOM	12176	CA	ALA	G	157	118.725	145.613	124.483	1.00	101.75	G
ATOM	12177	CB	ALA	G	157	120.094	145.107	124.917	1.00	101.09	G
ATOM	12178	C	ALA	G	157	118.658	145.717	122.965	1.00	105.21	G
ATOM	12179	O	ALA	G	157	119.673	145.895	122.289	1.00	106.44	G
ATOM	12180	N	GLY	G	158	117.439	145.596	122.446	1.00	108.17	G
ATOM	12181	CA	GLY	G	158	117.211	145.659	121.017	1.00	110.25	G
ATOM	12182	C	GLY	G	158	116.904	144.275	120.486	1.00	112.68	G
ATOM	12183	O	GLY	G	158	115.831	144.041	119.926	1.00	113.08	G
ATOM	12184	N	THR	G	159	117.853	143.358	120.672	1.00	114.34	G
ATOM	12185	CA	THR	G	159	117.718	141.974	120.220	1.00	115.40	G
ATOM	12186	CB	THR	G	159	118.824	141.593	119.222	1.00	116.55	G
ATOM	12187	OG1	THR	G	159	120.097	141.673	119.877	1.00	118.97	G
ATOM	12188	CG2	THR	G	159	118.819	142.532	118.021	1.00	119.09	G
ATOM	12189	C	THR	G	159	117.866	141.062	121.424	1.00	115.64	G

ATOM	12190	O	THR	G	159	117.101	140.113	121.601	1.00115.53	G
ATOM	12191	N	ARG	G	160	118.871	141.360	122.241	1.00115.94	G
ATOM	12192	CA	ARG	G	160	119.148	140.586	123.437	1.00117.09	G
ATOM	12193	CB	ARG	G	160	120.441	141.080	124.091	1.00122.13	G
ATOM	12194	CG	ARG	G	160	120.929	140.235	125.269	1.00129.68	G
ATOM	12195	CD	ARG	G	160	121.611	138.945	124.800	1.00134.68	G
ATOM	12196	NE	ARG	G	160	122.310	138.258	125.884	1.00138.10	G
ATOM	12197	CZ	ARG	G	160	121.729	137.455	126.771	1.00137.91	G
ATOM	12198	NH1	ARG	G	160	120.423	137.216	126.709	1.00138.58	G
ATOM	12199	NH2	ARG	G	160	122.453	136.911	127.741	1.00137.71	G
ATOM	12200	C	ARG	G	160	117.991	140.735	124.417	1.00115.04	G
ATOM	12201	O	ARG	G	160	117.455	141.830	124.607	1.00114.44	G
ATOM	12202	N	VAL	G	161	117.602	139.625	125.031	1.00112.42	G
ATOM	12203	CA	VAL	G	161	116.522	139.638	126.008	1.00110.38	G
ATOM	12204	CB	VAL	G	161	115.631	138.373	125.883	1.00112.72	G
ATOM	12205	CG1	VAL	G	161	116.470	137.115	126.097	1.00112.63	G
ATOM	12206	CG2	VAL	G	161	114.485	138.441	126.888	1.00110.93	G
ATOM	12207	C	VAL	G	161	117.126	139.697	127.410	1.00106.44	G
ATOM	12208	O	VAL	G	161	118.034	138.935	127.742	1.00105.52	G
ATOM	12209	N	LEU	G	162	116.622	140.608	128.233	1.00102.56	G
ATOM	12210	CA	LEU	G	162	117.136	140.757	129.588	1.00 99.26	G
ATOM	12211	CB	LEU	G	162	117.367	142.235	129.894	1.00100.66	G
ATOM	12212	CG	LEU	G	162	118.389	142.918	128.991	1.00101.26	G
ATOM	12213	CD1	LEU	G	162	118.586	144.357	129.440	1.00100.66	G
ATOM	12214	CD2	LEU	G	162	119.699	142.153	129.053	1.00101.45	G
ATOM	12215	C	LEU	G	162	116.265	140.147	130.686	1.00 95.72	G
ATOM	12216	O	LEU	G	162	115.377	139.327	130.429	1.00 95.84	G
ATOM	12217	N	GLU	G	163	116.536	140.561	131.917	1.00 90.68	G
ATOM	12218	CA	GLU	G	163	115.804	140.067	133.070	1.00 85.60	G
ATOM	12219	CB	GLU	G	163	116.796	139.657	134.158	1.00 89.29	G
ATOM	12220	CG	GLU	G	163	116.205	138.813	135.264	1.00 95.78	G
ATOM	12221	CD	GLU	G	163	117.232	137.882	135.876	1.00 96.59	G
ATOM	12222	OE1	GLU	G	163	117.581	136.878	135.219	1.00 97.49	G
ATOM	12223	OE2	GLU	G	163	117.695	138.158	137.004	1.00 97.73	G
ATOM	12224	C	GLU	G	163	114.847	141.145	133.574	1.00 79.10	G
ATOM	12225	O	GLU	G	163	115.209	142.325	133.671	1.00 78.10	G
ATOM	12226	N	ASN	G	164	113.621	140.727	133.880	1.00 69.99	G
ATOM	12227	CA	ASN	G	164	112.574	141.629	134.352	1.00 61.23	G
ATOM	12228	CB	ASN	G	164	111.379	140.818	134.822	1.00 61.03	G
ATOM	12229	CG	ASN	G	164	110.976	139.768	133.823	1.00 63.28	G
ATOM	12230	OD1	ASN	G	164	110.473	140.078	132.745	1.00 67.04	G
ATOM	12231	ND2	ASN	G	164	111.209	138.510	134.167	1.00 70.97	G
ATOM	12232	C	ASN	G	164	113.033	142.537	135.476	1.00 57.18	G
ATOM	12233	O	ASN	G	164	113.976	142.232	136.199	1.00 58.33	G
ATOM	12234	N	ALA	G	165	112.357	143.660	135.640	1.00 54.01	G
ATOM	12235	CA	ALA	G	165	112.739	144.575	136.691	1.00 52.43	G
ATOM	12236	CB	ALA	G	165	113.667	145.637	136.142	1.00 55.29	G
ATOM	12237	C	ALA	G	165	111.518	145.214	137.311	1.00 52.44	G
ATOM	12238	O	ALA	G	165	110.459	145.297	136.687	1.00 52.23	G
ATOM	12239	N	LEU	G	166	111.677	145.640	138.559	1.00 49.34	G
ATOM	12240	CA	LEU	G	166	110.618	146.296	139.304	1.00 47.01	G
ATOM	12241	CB	LEU	G	166	110.267	145.487	140.552	1.00 43.22	G
ATOM	12242	CG	LEU	G	166	109.260	146.132	141.506	1.00 48.56	G
ATOM	12243	CD1	LEU	G	166	107.909	146.314	140.795	1.00 42.83	G
ATOM	12244	CD2	LEU	G	166	109.110	145.261	142.736	1.00 42.53	G
ATOM	12245	C	LEU	G	166	111.203	147.641	139.686	1.00 47.60	G
ATOM	12246	O	LEU	G	166	112.052	147.734	140.565	1.00 48.03	G
ATOM	12247	N	VAL	G	167	110.764	148.694	139.015	1.00 49.19	G

ATOM	12248	CA	VAL	G	167	111.326	149.996	139.311	1.00	50.27	G
ATOM	12249	CB	VAL	G	167	111.604	150.802	138.040	1.00	50.01	G
ATOM	12250	CG1	VAL	G	167	112.404	152.043	138.395	1.00	51.47	G
ATOM	12251	CG2	VAL	G	167	112.362	149.938	137.031	1.00	49.82	G
ATOM	12252	C	VAL	G	167	110.465	150.830	140.219	1.00	49.91	G
ATOM	12253	O	VAL	G	167	109.375	151.258	139.853	1.00	50.00	G
ATOM	12254	N	PRO	G	168	110.965	151.083	141.427	1.00	51.05	G
ATOM	12255	CD	PRO	G	168	112.298	150.628	141.857	1.00	49.77	G
ATOM	12256	CA	PRO	G	168	110.321	151.868	142.480	1.00	53.39	G
ATOM	12257	CB	PRO	G	168	111.334	151.802	143.615	1.00	52.74	G
ATOM	12258	CG	PRO	G	168	112.650	151.662	142.887	1.00	53.44	G
ATOM	12259	C	PRO	G	168	109.996	153.306	142.085	1.00	56.25	G
ATOM	12260	O	PRO	G	168	110.676	153.901	141.256	1.00	57.85	G
ATOM	12261	N	PRO	G	169	108.945	153.881	142.690	1.00	58.65	G
ATOM	12262	CD	PRO	G	169	108.062	153.202	143.651	1.00	60.56	G
ATOM	12263	CA	PRO	G	169	108.479	155.251	142.449	1.00	61.01	G
ATOM	12264	CB	PRO	G	169	107.369	155.422	143.484	1.00	60.51	G
ATOM	12265	CG	PRO	G	169	106.810	154.055	143.594	1.00	62.55	G
ATOM	12266	C	PRO	G	169	109.598	156.258	142.668	1.00	62.33	G
ATOM	12267	O	PRO	G	169	110.352	156.146	143.635	1.00	64.41	G
ATOM	12268	N	MET	G	170	109.702	157.240	141.779	1.00	62.34	G
ATOM	12269	CA	MET	G	170	110.731	158.259	141.903	1.00	60.73	G
ATOM	12270	CB	MET	G	170	110.285	159.286	142.936	1.00	60.39	G
ATOM	12271	CG	MET	G	170	109.120	160.113	142.444	1.00	71.16	G
ATOM	12272	SD	MET	G	170	108.289	161.058	143.714	1.00	83.34	G
ATOM	12273	CE	MET	G	170	106.742	160.134	143.842	1.00	83.17	G
ATOM	12274	C	MET	G	170	112.061	157.629	142.297	1.00	60.63	G
ATOM	12275	O	MET	G	170	112.819	158.181	143.101	1.00	60.98	G
ATOM	12276	N	GLY	G	171	112.327	156.461	141.724	1.00	57.60	G
ATOM	12277	CA	GLY	G	171	113.552	155.756	142.017	1.00	59.37	G
ATOM	12278	C	GLY	G	171	114.094	155.111	140.765	1.00	62.77	G
ATOM	12279	O	GLY	G	171	113.703	155.482	139.661	1.00	64.81	G
ATOM	12280	N	GLU	G	172	114.984	154.139	140.929	1.00	65.15	G
ATOM	12281	CA	GLU	G	172	115.578	153.469	139.783	1.00	69.22	G
ATOM	12282	CB	GLU	G	172	116.622	154.391	139.154	1.00	74.36	G
ATOM	12283	CG	GLU	G	172	117.582	154.997	140.166	1.00	79.15	G
ATOM	12284	CD	GLU	G	172	118.401	156.124	139.576	1.00	85.03	G
ATOM	12285	OE1	GLU	G	172	119.194	155.855	138.646	1.00	87.63	G
ATOM	12286	OE2	GLU	G	172	118.244	157.278	140.037	1.00	85.83	G
ATOM	12287	C	GLU	G	172	116.205	152.118	140.119	1.00	67.77	G
ATOM	12288	O	GLU	G	172	116.478	151.811	141.272	1.00	67.01	G
ATOM	12289	N	SER	G	173	116.438	151.322	139.086	1.00	69.02	G
ATOM	12290	CA	SER	G	173	117.016	149.999	139.241	1.00	72.78	G
ATOM	12291	CB	SER	G	173	115.905	148.950	139.239	1.00	72.94	G
ATOM	12292	OG	SER	G	173	114.722	149.472	139.822	1.00	79.29	G
ATOM	12293	C	SER	G	173	117.954	149.740	138.069	1.00	75.06	G
ATOM	12294	O	SER	G	173	117.699	150.193	136.952	1.00	72.74	G
ATOM	12295	N	ALA	G	174	119.030	149.004	138.315	1.00	79.41	G
ATOM	12296	CA	ALA	G	174	119.973	148.702	137.253	1.00	82.65	G
ATOM	12297	CB	ALA	G	174	121.377	149.180	137.650	1.00	80.82	G
ATOM	12298	C	ALA	G	174	120.002	147.212	136.920	1.00	84.57	G
ATOM	12299	O	ALA	G	174	120.339	146.385	137.766	1.00	86.64	G
ATOM	12300	N	VAL	G	175	119.623	146.873	135.695	1.00	87.25	G
ATOM	12301	CA	VAL	G	175	119.657	145.490	135.244	1.00	94.44	G
ATOM	12302	CB	VAL	G	175	118.510	145.186	134.258	1.00	95.09	G
ATOM	12303	CG1	VAL	G	175	118.747	143.831	133.583	1.00	92.37	G
ATOM	12304	CG2	VAL	G	175	117.167	145.194	134.971	1.00	94.87	G
ATOM	12305	C	VAL	G	175	120.985	145.286	134.529	1.00	100.08	G

ATOM	12306	O	VAL	G	175	121.394	146.132	133.734	1.00102.14	G
ATOM	12307	N	LYS	G	176	121.658	144.175	134.826	1.00102.91	G
ATOM	12308	CA	LYS	G	176	122.953	143.893	134.209	1.00106.87	G
ATOM	12309	CB	LYS	G	176	123.470	142.505	134.606	1.00105.22	G
ATOM	12310	CG	LYS	G	176	123.865	142.366	136.086	1.00106.34	G
ATOM	12311	CD	LYS	G	176	122.651	142.443	137.030	1.00102.57	G
ATOM	12312	CE	LYS	G	176	123.008	142.018	138.458	1.00 92.54	G
ATOM	12313	NZ	LYS	G	176	124.097	142.860	139.034	1.00 85.88	G
ATOM	12314	C	LYS	G	176	122.851	143.974	132.682	1.00111.78	G
ATOM	12315	O	LYS	G	176	122.133	143.196	132.052	1.00112.73	G
ATOM	12316	N	LEU	G	177	123.568	144.931	132.095	1.00115.47	G
ATOM	12317	CA	LEU	G	177	123.601	145.143	130.646	1.00118.52	G
ATOM	12318	CB	LEU	G	177	123.952	146.608	130.386	1.00116.65	G
ATOM	12319	CG	LEU	G	177	123.897	147.174	128.966	1.00115.38	G
ATOM	12320	CD1	LEU	G	177	122.728	146.576	128.187	1.00114.26	G
ATOM	12321	CD2	LEU	G	177	123.749	148.697	129.040	1.00114.01	G
ATOM	12322	C	LEU	G	177	124.640	144.187	130.033	1.00121.55	G
ATOM	12323	O	LEU	G	177	125.846	144.349	130.228	1.00121.63	G
ATOM	12324	N	PRO	G	178	124.169	143.185	129.269	1.00124.09	G
ATOM	12325	CD	PRO	G	178	122.750	143.068	128.885	1.00124.83	G
ATOM	12326	CA	PRO	G	178	124.956	142.145	128.596	1.00126.43	G
ATOM	12327	CB	PRO	G	178	123.880	141.245	128.004	1.00125.03	G
ATOM	12328	CG	PRO	G	178	122.829	142.221	127.629	1.00127.33	G
ATOM	12329	C	PRO	G	178	125.988	142.549	127.546	1.00129.20	G
ATOM	12330	O	PRO	G	178	126.899	141.772	127.245	1.00130.27	G
ATOM	12331	N	SER	G	179	125.845	143.745	126.983	1.00131.19	G
ATOM	12332	CA	SER	G	179	126.755	144.249	125.944	1.00132.11	G
ATOM	12333	CB	SER	G	179	128.227	144.009	126.329	1.00132.96	G
ATOM	12334	OG	SER	G	179	129.102	144.713	125.461	1.00133.64	G
ATOM	12335	C	SER	G	179	126.460	143.703	124.538	1.00131.51	G
ATOM	12336	O	SER	G	179	126.966	144.228	123.533	1.00130.85	G
ATOM	12337	N	ASP	G	180	125.660	142.636	124.477	1.00130.62	G
ATOM	12338	CA	ASP	G	180	125.210	142.053	123.200	1.00128.64	G
ATOM	12339	CB	ASP	G	180	124.613	140.651	123.418	1.00128.38	G
ATOM	12340	CG	ASP	G	180	125.621	139.656	123.952	1.00127.56	G
ATOM	12341	OD1	ASP	G	180	125.229	138.493	124.229	1.00126.37	G
ATOM	12342	OD2	ASP	G	180	126.806	140.028	124.085	1.00125.52	G
ATOM	12343	C	ASP	G	180	124.102	143.038	122.835	1.00126.72	G
ATOM	12344	O	ASP	G	180	123.116	142.725	122.190	1.00124.73	G
ATOM	12345	N	ALA	G	181	124.348	144.247	123.316	1.00125.38	G
ATOM	12346	CA	ALA	G	181	123.534	145.445	123.247	1.00123.97	G
ATOM	12347	CB	ALA	G	181	124.372	146.595	123.690	1.00122.69	G
ATOM	12348	C	ALA	G	181	122.849	145.827	121.949	1.00123.73	G
ATOM	12349	O	ALA	G	181	122.470	144.997	121.121	1.00122.71	G
ATOM	12350	N	GLY	G	182	122.645	147.140	121.867	1.00124.44	G
ATOM	12351	CA	GLY	G	182	122.012	147.823	120.759	1.00125.65	G
ATOM	12352	C	GLY	G	182	121.804	149.243	121.253	1.00126.82	G
ATOM	12353	O	GLY	G	182	122.743	150.042	121.289	1.00127.54	G
ATOM	12354	N	SER	G	183	120.576	149.527	121.664	1.00126.53	G
ATOM	12355	CA	SER	G	183	120.167	150.819	122.180	1.00125.03	G
ATOM	12356	CB	SER	G	183	120.879	151.971	121.475	1.00126.04	G
ATOM	12357	OG	SER	G	183	120.883	153.125	122.299	1.00128.53	G
ATOM	12358	C	SER	G	183	118.698	150.828	121.823	1.00123.11	G
ATOM	12359	O	SER	G	183	117.930	151.703	122.230	1.00122.48	G
ATOM	12360	N	ASN	G	184	118.328	149.822	121.037	1.00120.93	G
ATOM	12361	CA	ASN	G	184	116.954	149.620	120.603	1.00118.49	G
ATOM	12362	CB	ASN	G	184	116.907	148.625	119.430	1.00118.39	G
ATOM	12363	CG	ASN	G	184	115.488	148.309	118.984	1.00117.96	G

ATOM	12364	OD1	ASN	G	184	114.748	149.202	118.569	1.00119.66	G
ATOM	12365	ND2	ASN	G	184	115.100	147.035	119.072	1.00116.16	G
ATOM	12366	C	ASN	G	184	116.237	149.038	121.807	1.00115.96	G
ATOM	12367	O	ASN	G	184	115.466	148.078	121.696	1.00116.12	G
ATOM	12368	N	ILE	G	185	116.526	149.611	122.970	1.00112.51	G
ATOM	12369	CA	ILE	G	185	115.915	149.152	124.205	1.00108.39	G
ATOM	12370	CB	ILE	G	185	116.236	150.107	125.375	1.00105.76	G
ATOM	12371	CG2	ILE	G	185	115.578	149.594	126.650	1.00106.86	G
ATOM	12372	CG1	ILE	G	185	117.752	150.192	125.579	1.00100.54	G
ATOM	12373	CD1	ILE	G	185	118.170	151.059	126.740	1.00 96.71	G
ATOM	12374	C	ILE	G	185	114.400	149.039	124.025	1.00105.79	G
ATOM	12375	O	ILE	G	185	113.735	149.985	123.600	1.00105.31	G
ATOM	12376	N	THR	G	186	113.867	147.864	124.339	1.00101.10	G
ATOM	12377	CA	THR	G	186	112.445	147.602	124.193	1.00 94.96	G
ATOM	12378	CB	THR	G	186	112.227	146.681	123.016	1.00 92.78	G
ATOM	12379	OG1	THR	G	186	113.136	145.579	123.108	1.00 93.19	G
ATOM	12380	CG2	THR	G	186	112.496	147.413	121.729	1.00 94.14	G
ATOM	12381	C	THR	G	186	111.848	146.976	125.447	1.00 92.02	G
ATOM	12382	O	THR	G	186	112.477	146.134	126.093	1.00 91.50	G
ATOM	12383	N	TYR	G	187	110.626	147.376	125.786	1.00 88.06	G
ATOM	12384	CA	TYR	G	187	109.994	146.861	126.994	1.00 81.22	G
ATOM	12385	CB	TYR	G	187	110.561	147.596	128.197	1.00 76.60	G
ATOM	12386	CG	TYR	G	187	110.123	149.038	128.231	1.00 70.13	G
ATOM	12387	CD1	TYR	G	187	108.863	149.393	128.704	1.00 72.55	G
ATOM	12388	CE1	TYR	G	187	108.432	150.711	128.701	1.00 71.03	G
ATOM	12389	CD2	TYR	G	187	110.947	150.043	127.754	1.00 71.09	G
ATOM	12390	CE2	TYR	G	187	110.527	151.369	127.745	1.00 74.07	G
ATOM	12391	CZ	TYR	G	187	109.268	151.693	128.221	1.00 72.26	G
ATOM	12392	OH	TYR	G	187	108.852	153.001	128.219	1.00 75.15	G
ATOM	12393	C	TYR	G	187	108.488	147.034	127.021	1.00 78.08	G
ATOM	12394	O	TYR	G	187	107.935	147.923	126.380	1.00 80.99	G
ATOM	12395	N	ARG	G	188	107.836	146.184	127.799	1.00 74.04	G
ATOM	12396	CA	ARG	G	188	106.394	146.247	128.002	1.00 69.90	G
ATOM	12397	CB	ARG	G	188	105.722	144.998	127.427	1.00 70.47	G
ATOM	12398	CG	ARG	G	188	106.096	144.709	125.984	1.00 74.86	G
ATOM	12399	CD	ARG	G	188	105.574	143.362	125.525	1.00 74.72	G
ATOM	12400	NE	ARG	G	188	104.121	143.335	125.415	1.00 81.68	G
ATOM	12401	CZ	ARG	G	188	103.430	144.009	124.503	1.00 84.90	G
ATOM	12402	NH1	ARG	G	188	104.063	144.766	123.620	1.00 84.17	G
ATOM	12403	NH2	ARG	G	188	102.106	143.923	124.469	1.00 87.65	G
ATOM	12404	C	ARG	G	188	106.299	146.252	129.534	1.00 65.52	G
ATOM	12405	O	ARG	G	188	107.308	146.027	130.205	1.00 68.84	G
ATOM	12406	N	THR	G	189	105.136	146.536	130.106	1.00 56.15	G
ATOM	12407	CA	THR	G	189	105.048	146.496	131.561	1.00 50.87	G
ATOM	12408	CB	THR	G	189	105.039	147.874	132.206	1.00 43.27	G
ATOM	12409	OG1	THR	G	189	103.735	148.446	132.074	1.00 35.72	G
ATOM	12410	CG2	THR	G	189	106.089	148.760	131.573	1.00 39.60	G
ATOM	12411	C	THR	G	189	103.793	145.776	131.999	1.00 52.98	G
ATOM	12412	O	THR	G	189	103.056	145.238	131.169	1.00 56.05	G
ATOM	12413	N	ILE	G	190	103.551	145.755	133.307	1.00 50.15	G
ATOM	12414	CA	ILE	G	190	102.385	145.068	133.828	1.00 43.74	G
ATOM	12415	CB	ILE	G	190	102.828	143.886	134.700	1.00 39.00	G
ATOM	12416	CG2	ILE	G	190	101.627	143.038	135.084	1.00 40.88	G
ATOM	12417	CG1	ILE	G	190	103.828	143.039	133.895	1.00 38.09	G
ATOM	12418	CD1	ILE	G	190	104.242	141.741	134.512	1.00 30.17	G
ATOM	12419	C	ILE	G	190	101.513	146.056	134.582	1.00 44.35	G
ATOM	12420	O	ILE	G	190	101.928	146.638	135.583	1.00 45.25	G
ATOM	12421	N	ASN	G	191	100.306	146.264	134.065	1.00 43.17	G

ATOM	12422	CA	ASN	G	191	99.369	147.214	134.652	1.00	42.09	G
ATOM	12423	CB	ASN	G	191	98.430	147.752	133.582	1.00	42.39	G
ATOM	12424	CG	ASN	G	191	97.599	146.657	132.957	1.00	44.64	G
ATOM	12425	OD1	ASN	G	191	96.974	145.838	133.652	1.00	45.06	G
ATOM	12426	ND2	ASN	G	191	97.587	146.626	131.640	1.00	43.93	G
ATOM	12427	C	ASN	G	191	98.515	146.630	135.762	1.00	40.07	G
ATOM	12428	O	ASN	G	191	98.482	145.415	135.989	1.00	40.43	G
ATOM	12429	N	ASP	G	192	97.793	147.536	136.407	1.00	32.97	G
ATOM	12430	CA	ASP	G	192	96.903	147.237	137.503	1.00	28.92	G
ATOM	12431	CB	ASP	G	192	95.973	148.421	137.740	1.00	28.99	G
ATOM	12432	CG	ASP	G	192	96.705	149.673	138.205	1.00	34.36	G
ATOM	12433	OD1	ASP	G	192	96.011	150.616	138.618	1.00	38.45	G
ATOM	12434	OD2	ASP	G	192	97.950	149.727	138.165	1.00	42.13	G
ATOM	12435	C	ASP	G	192	96.053	145.999	137.302	1.00	33.86	G
ATOM	12436	O	ASP	G	192	95.485	145.472	138.257	1.00	34.31	G
ATOM	12437	N	TYR	G	193	95.943	145.521	136.070	1.00	37.36	G
ATOM	12438	CA	TYR	G	193	95.104	144.356	135.833	1.00	40.23	G
ATOM	12439	CB	TYR	G	193	94.126	144.645	134.701	1.00	43.13	G
ATOM	12440	CG	TYR	G	193	93.462	145.974	134.901	1.00	45.07	G
ATOM	12441	CD1	TYR	G	193	93.859	147.085	134.165	1.00	45.60	G
ATOM	12442	CE1	TYR	G	193	93.307	148.343	134.410	1.00	50.42	G
ATOM	12443	CD2	TYR	G	193	92.492	146.143	135.893	1.00	46.42	G
ATOM	12444	CE2	TYR	G	193	91.936	147.392	136.149	1.00	49.37	G
ATOM	12445	CZ	TYR	G	193	92.346	148.491	135.404	1.00	48.51	G
ATOM	12446	OH	TYR	G	193	91.795	149.733	135.648	1.00	46.98	G
ATOM	12447	C	TYR	G	193	95.943	143.163	135.520	1.00	41.12	G
ATOM	12448	O	TYR	G	193	95.442	142.138	135.046	1.00	40.24	G
ATOM	12449	N	GLY	G	194	97.231	143.305	135.804	1.00	43.76	G
ATOM	12450	CA	GLY	G	194	98.158	142.221	135.567	1.00	49.30	G
ATOM	12451	C	GLY	G	194	98.188	141.935	134.094	1.00	50.40	G
ATOM	12452	O	GLY	G	194	98.390	140.798	133.673	1.00	45.62	G
ATOM	12453	N	ALA	G	195	97.969	142.996	133.322	1.00	54.81	G
ATOM	12454	CA	ALA	G	195	97.953	142.922	131.871	1.00	56.28	G
ATOM	12455	CB	ALA	G	195	96.682	143.575	131.347	1.00	57.58	G
ATOM	12456	C	ALA	G	195	99.190	143.617	131.296	1.00	57.59	G
ATOM	12457	O	ALA	G	195	99.647	144.632	131.833	1.00	53.51	G
ATOM	12458	N	LEU	G	196	99.730	143.049	130.216	1.00	60.44	G
ATOM	12459	CA	LEU	G	196	100.911	143.596	129.551	1.00	62.76	G
ATOM	12460	CB	LEU	G	196	101.491	142.584	128.561	1.00	62.94	G
ATOM	12461	CG	LEU	G	196	102.269	141.386	129.111	1.00	67.12	G
ATOM	12462	CD1	LEU	G	196	102.606	140.414	127.992	1.00	66.24	G
ATOM	12463	CD2	LEU	G	196	103.533	141.879	129.782	1.00	65.50	G
ATOM	12464	C	LEU	G	196	100.558	144.857	128.788	1.00	64.82	G
ATOM	12465	O	LEU	G	196	99.644	144.857	127.968	1.00	69.48	G
ATOM	12466	N	THR	G	197	101.268	145.941	129.058	1.00	65.21	G
ATOM	12467	CA	THR	G	197	100.995	147.167	128.337	1.00	65.81	G
ATOM	12468	CB	THR	G	197	101.618	148.390	129.032	1.00	62.72	G
ATOM	12469	OG1	THR	G	197	103.049	148.301	128.987	1.00	58.24	G
ATOM	12470	CG2	THR	G	197	101.146	148.462	130.472	1.00	61.09	G
ATOM	12471	C	THR	G	197	101.618	146.968	126.960	1.00	70.18	G
ATOM	12472	O	THR	G	197	102.327	145.983	126.728	1.00	69.39	G
ATOM	12473	N	PRO	G	198	101.350	147.884	126.021	1.00	73.29	G
ATOM	12474	CD	PRO	G	198	100.465	149.062	126.079	1.00	73.36	G
ATOM	12475	CA	PRO	G	198	101.927	147.732	124.686	1.00	75.89	G
ATOM	12476	CB	PRO	G	198	101.105	148.706	123.855	1.00	74.21	G
ATOM	12477	CG	PRO	G	198	100.849	149.814	124.828	1.00	73.53	G
ATOM	12478	C	PRO	G	198	103.425	148.053	124.660	1.00	79.12	G
ATOM	12479	O	PRO	G	198	103.895	148.961	125.362	1.00	79.19	G

ATOM	12480	N	LYS	G	199	104.159	147.291	123.849	1.00	80.19	G
ATOM	12481	CA	LYS	G	199	105.604	147.442	123.680	1.00	78.89	G
ATOM	12482	CB	LYS	G	199	106.065	146.514	122.558	1.00	77.62	G
ATOM	12483	CG	LYS	G	199	107.511	146.637	122.134	1.00	82.94	G
ATOM	12484	CD	LYS	G	199	107.837	145.473	121.186	1.00	88.74	G
ATOM	12485	CE	LYS	G	199	109.034	145.745	120.272	1.00	93.24	G
ATOM	12486	NZ	LYS	G	199	110.320	145.896	120.997	1.00	88.26	G
ATOM	12487	C	LYS	G	199	105.984	148.882	123.367	1.00	77.68	G
ATOM	12488	O	LYS	G	199	105.393	149.508	122.495	1.00	78.75	G
ATOM	12489	N	MET	G	200	106.958	149.417	124.091	1.00	77.43	G
ATOM	12490	CA	MET	G	200	107.392	150.785	123.852	1.00	78.37	G
ATOM	12491	CB	MET	G	200	107.056	151.676	125.042	1.00	80.05	G
ATOM	12492	CG	MET	G	200	106.062	151.068	126.003	1.00	85.41	G
ATOM	12493	SD	MET	G	200	105.260	152.322	127.017	1.00	94.02	G
ATOM	12494	CE	MET	G	200	103.533	151.800	126.843	1.00	93.11	G
ATOM	12495	C	MET	G	200	108.891	150.774	123.624	1.00	78.41	G
ATOM	12496	O	MET	G	200	109.559	149.788	123.946	1.00	76.53	G
ATOM	12497	N	THR	G	201	109.417	151.868	123.074	1.00	79.35	G
ATOM	12498	CA	THR	G	201	110.844	151.961	122.787	1.00	80.61	G
ATOM	12499	CB	THR	G	201	111.100	152.666	121.436	1.00	79.49	G
ATOM	12500	OG1	THR	G	201	110.465	151.929	120.383	1.00	79.23	G
ATOM	12501	CG2	THR	G	201	112.595	152.739	121.154	1.00	76.14	G
ATOM	12502	C	THR	G	201	111.658	152.676	123.854	1.00	81.67	G
ATOM	12503	O	THR	G	201	111.285	153.750	124.329	1.00	81.82	G
ATOM	12504	N	GLY	G	202	112.784	152.066	124.212	1.00	83.19	G
ATOM	12505	CA	GLY	G	202	113.665	152.638	125.209	1.00	87.53	G
ATOM	12506	C	GLY	G	202	114.068	154.048	124.838	1.00	89.82	G
ATOM	12507	O	GLY	G	202	114.422	154.314	123.688	1.00	90.02	G
ATOM	12508	N	VAL	G	203	114.020	154.947	125.816	1.00	91.58	G
ATOM	12509	CA	VAL	G	203	114.362	156.348	125.598	1.00	92.84	G
ATOM	12510	CB	VAL	G	203	113.095	157.216	125.677	1.00	90.92	G
ATOM	12511	CG1	VAL	G	203	113.419	158.655	125.327	1.00	89.22	G
ATOM	12512	CG2	VAL	G	203	112.033	156.653	124.752	1.00	89.34	G
ATOM	12513	C	VAL	G	203	115.371	156.844	126.632	1.00	95.18	G
ATOM	12514	O	VAL	G	203	115.012	157.587	127.550	1.00	96.74	G
ATOM	12515	N	MET	G	204	116.630	156.438	126.474	1.00	96.83	G
ATOM	12516	CA	MET	G	204	117.703	156.818	127.399	1.00	99.14	G
ATOM	12517	CB	MET	G	204	119.072	156.523	126.777	1.00	101.21	G
ATOM	12518	CG	MET	G	204	119.341	155.046	126.485	1.00	107.38	G
ATOM	12519	SD	MET	G	204	118.205	154.297	125.272	1.00	115.02	G
ATOM	12520	CE	MET	G	204	119.034	154.681	123.720	1.00	112.14	G
ATOM	12521	C	MET	G	204	117.641	158.287	127.811	1.00	98.94	G
ATOM	12522	O	MET	G	204	117.485	159.167	126.974	1.00	97.98	G
ATOM	12523	N	GLU	G	205	117.759	158.547	129.108	1.00	100.95	G
ATOM	12524	CA	GLU	G	205	117.720	159.915	129.608	1.00	103.42	G
ATOM	12525	CB	GLU	G	205	117.186	159.971	131.043	1.00	107.10	G
ATOM	12526	CG	GLU	G	205	118.159	159.450	132.101	1.00	114.78	G
ATOM	12527	CD	GLU	G	205	118.402	160.450	133.230	1.00	118.46	G
ATOM	12528	OE1	GLU	G	205	119.169	160.123	134.168	1.00	119.74	G
ATOM	12529	OE2	GLU	G	205	117.828	161.561	133.176	1.00	119.69	G
ATOM	12530	C	GLU	G	205	119.129	160.476	129.577	1.00	103.97	G
ATOM	12531	O	GLU	G	205	119.276	161.657	129.205	1.00	103.40	G
ATOM	12532	OXT	GLU	G	205	120.061	159.723	129.942	1.00	105.03	G
ATOM	12533	CB	PHE	H	1	55.714	149.969	114.447	1.00	37.42	H
ATOM	12534	CG	PHE	H	1	56.684	149.317	115.380	1.00	34.44	H
ATOM	12535	CD1	PHE	H	1	58.014	149.130	115.007	1.00	41.17	H
ATOM	12536	CD2	PHE	H	1	56.294	148.944	116.654	1.00	36.06	H
ATOM	12537	CE1	PHE	H	1	58.940	148.586	115.892	1.00	37.87	H

ATOM	12538	CE2	PHE	H	1	57.214	148.394	117.553	1.00	36.58	H
ATOM	12539	CZ	PHE	H	1	58.540	148.218	117.171	1.00	39.52	H
ATOM	12540	C	PHE	H	1	57.104	152.072	114.175	1.00	34.32	H
ATOM	12541	O	PHE	H	1	57.589	151.932	113.052	1.00	29.62	H
ATOM	12542	N	PHE	H	1	54.761	152.069	113.524	1.00	41.73	H
ATOM	12543	CA	PHE	H	1	55.725	151.513	114.510	1.00	38.10	H
ATOM	12544	N	ALA	H	2	57.715	152.729	115.152	1.00	33.26	H
ATOM	12545	CA	ALA	H	2	59.039	153.313	114.974	1.00	32.20	H
ATOM	12546	CB	ALA	H	2	58.911	154.742	114.529	1.00	24.41	H
ATOM	12547	C	ALA	H	2	59.815	153.238	116.288	1.00	33.91	H
ATOM	12548	O	ALA	H	2	59.220	153.117	117.368	1.00	37.28	H
ATOM	12549	N	CYS	H	3	61.139	153.309	116.207	1.00	28.15	H
ATOM	12550	CA	CYS	H	3	61.947	153.235	117.414	1.00	27.06	H
ATOM	12551	C	CYS	H	3	62.990	154.346	117.427	1.00	27.28	H
ATOM	12552	O	CYS	H	3	63.302	154.919	116.392	1.00	28.38	H
ATOM	12553	CB	CYS	H	3	62.641	151.879	117.503	1.00	28.57	H
ATOM	12554	SG	CYS	H	3	61.602	150.379	117.386	1.00	38.08	H
ATOM	12555	N	LYS	H	4	63.510	154.671	118.605	1.00	29.86	H
ATOM	12556	CA	LYS	H	4	64.529	155.705	118.717	1.00	34.90	H
ATOM	12557	CB	LYS	H	4	63.937	157.059	119.111	1.00	33.47	H
ATOM	12558	CG	LYS	H	4	63.341	157.093	120.509	1.00	45.67	H
ATOM	12559	CD	LYS	H	4	62.616	158.417	120.828	1.00	50.32	H
ATOM	12560	CE	LYS	H	4	63.576	159.596	120.989	1.00	58.40	H
ATOM	12561	NZ	LYS	H	4	64.281	159.941	119.716	1.00	67.11	H
ATOM	12562	C	LYS	H	4	65.560	155.299	119.751	1.00	38.58	H
ATOM	12563	O	LYS	H	4	65.326	154.453	120.615	1.00	38.59	H
ATOM	12564	N	THR	H	5	66.708	155.941	119.652	1.00	38.14	H
ATOM	12565	CA	THR	H	5	67.816	155.668	120.517	1.00	33.08	H
ATOM	12566	CB	THR	H	5	69.085	155.535	119.648	1.00	30.87	H
ATOM	12567	OG1	THR	H	5	69.793	154.353	120.016	1.00	35.08	H
ATOM	12568	CG2	THR	H	5	69.954	156.721	119.771	1.00	22.60	H
ATOM	12569	C	THR	H	5	67.896	156.786	121.533	1.00	32.38	H
ATOM	12570	O	THR	H	5	67.718	157.952	121.205	1.00	34.67	H
ATOM	12571	N	ALA	H	6	68.128	156.411	122.782	1.00	34.51	H
ATOM	12572	CA	ALA	H	6	68.215	157.368	123.876	1.00	33.54	H
ATOM	12573	CB	ALA	H	6	68.585	156.655	125.160	1.00	34.51	H
ATOM	12574	C	ALA	H	6	69.226	158.439	123.574	1.00	37.24	H
ATOM	12575	O	ALA	H	6	69.147	159.544	124.092	1.00	39.58	H
ATOM	12576	N	ASN	H	7	70.184	158.108	122.722	1.00	45.38	H
ATOM	12577	CA	ASN	H	7	71.229	159.047	122.348	1.00	48.47	H
ATOM	12578	CB	ASN	H	7	72.362	158.311	121.652	1.00	52.67	H
ATOM	12579	CG	ASN	H	7	73.715	158.846	122.037	1.00	60.69	H
ATOM	12580	OD1	ASN	H	7	73.820	159.847	122.759	1.00	62.49	H
ATOM	12581	ND2	ASN	H	7	74.767	158.184	121.564	1.00	53.10	H
ATOM	12582	C	ASN	H	7	70.680	160.105	121.423	1.00	48.03	H
ATOM	12583	O	ASN	H	7	71.078	161.271	121.490	1.00	51.68	H
ATOM	12584	N	GLY	H	8	69.769	159.676	120.559	1.00	46.33	H
ATOM	12585	CA	GLY	H	8	69.146	160.573	119.614	1.00	50.64	H
ATOM	12586	C	GLY	H	8	68.557	159.894	118.379	1.00	56.92	H
ATOM	12587	O	GLY	H	8	67.390	160.141	118.036	1.00	60.37	H
ATOM	12588	N	THR	H	9	69.339	159.029	117.727	1.00	52.09	H
ATOM	12589	CA	THR	H	9	68.933	158.358	116.492	1.00	48.31	H
ATOM	12590	CB	THR	H	9	70.075	157.501	115.986	1.00	52.37	H
ATOM	12591	OG1	THR	H	9	71.238	158.326	115.855	1.00	59.18	H
ATOM	12592	CG2	THR	H	9	69.738	156.898	114.628	1.00	55.42	H
ATOM	12593	C	THR	H	9	67.646	157.536	116.436	1.00	45.75	H
ATOM	12594	O	THR	H	9	67.268	156.874	117.395	1.00	45.91	H
ATOM	12595	N	ALA	H	10	66.989	157.580	115.275	1.00	42.46	H

ATOM	12596	CA	ALA	H	10	65.730	156.873	115.040	1.00	38.18	H
ATOM	12597	CB	ALA	H	10	64.587	157.877	114.907	1.00	27.01	H
ATOM	12598	C	ALA	H	10	65.739	155.995	113.806	1.00	37.64	H
ATOM	12599	O	ALA	H	10	66.542	156.178	112.895	1.00	40.23	H
ATOM	12600	N	ILE	H	11	64.841	155.022	113.800	1.00	35.22	H
ATOM	12601	CA	ILE	H	11	64.663	154.153	112.656	1.00	35.57	H
ATOM	12602	CB	ILE	H	11	64.968	152.711	112.968	1.00	39.93	H
ATOM	12603	CG2	ILE	H	11	64.764	151.881	111.709	1.00	39.07	H
ATOM	12604	CG1	ILE	H	11	66.399	152.589	113.492	1.00	37.62	H
ATOM	12605	CD1	ILE	H	11	66.801	151.176	113.845	1.00	37.32	H
ATOM	12606	C	ILE	H	11	63.180	154.306	112.426	1.00	35.22	H
ATOM	12607	O	ILE	H	11	62.375	153.942	113.270	1.00	41.46	H
ATOM	12608	N	PRO	H	12	62.796	154.850	111.283	1.00	31.22	H
ATOM	12609	CD	PRO	H	12	63.663	155.276	110.171	1.00	35.37	H
ATOM	12610	CA	PRO	H	12	61.389	155.070	110.961	1.00	31.60	H
ATOM	12611	CB	PRO	H	12	61.476	156.096	109.842	1.00	34.87	H
ATOM	12612	CG	PRO	H	12	62.657	155.572	109.053	1.00	38.42	H
ATOM	12613	C	PRO	H	12	60.553	153.867	110.556	1.00	32.43	H
ATOM	12614	O	PRO	H	12	61.056	152.746	110.458	1.00	31.69	H
ATOM	12615	N	ILE	H	13	59.266	154.147	110.320	1.00	31.76	H
ATOM	12616	CA	ILE	H	13	58.262	153.179	109.870	1.00	30.65	H
ATOM	12617	CB	ILE	H	13	56.961	153.911	109.434	1.00	32.19	H
ATOM	12618	CG2	ILE	H	13	56.035	152.967	108.663	1.00	30.01	H
ATOM	12619	CG1	ILE	H	13	56.272	154.501	110.665	1.00	31.46	H
ATOM	12620	CD1	ILE	H	13	55.044	155.258	110.350	1.00	31.14	H
ATOM	12621	C	ILE	H	13	58.832	152.463	108.665	1.00	29.31	H
ATOM	12622	O	ILE	H	13	59.333	153.119	107.762	1.00	34.74	H
ATOM	12623	N	GLY	H	14	58.768	151.136	108.648	1.00	25.49	H
ATOM	12624	CA	GLY	H	14	59.303	150.395	107.518	1.00	25.58	H
ATOM	12625	C	GLY	H	14	60.655	149.769	107.817	1.00	29.47	H
ATOM	12626	O	GLY	H	14	61.180	148.981	107.032	1.00	30.42	H
ATOM	12627	N	GLY	H	15	61.235	150.137	108.953	1.00	30.68	H
ATOM	12628	CA	GLY	H	15	62.516	149.572	109.342	1.00	29.42	H
ATOM	12629	C	GLY	H	15	63.745	150.324	108.878	1.00	30.79	H
ATOM	12630	O	GLY	H	15	63.655	151.347	108.201	1.00	31.95	H
ATOM	12631	N	GLY	H	16	64.907	149.789	109.242	1.00	28.96	H
ATOM	12632	CA	GLY	H	16	66.168	150.406	108.895	1.00	21.46	H
ATOM	12633	C	GLY	H	16	67.170	150.025	109.956	1.00	21.18	H
ATOM	12634	O	GLY	H	16	67.016	149.014	110.622	1.00	25.47	H
ATOM	12635	N	SER	H	17	68.187	150.838	110.167	1.00	21.61	H
ATOM	12636	CA	SER	H	17	69.177	150.460	111.147	1.00	18.36	H
ATOM	12637	CB	SER	H	17	70.281	149.657	110.456	1.00	25.05	H
ATOM	12638	OG	SER	H	17	71.109	150.497	109.661	1.00	32.41	H
ATOM	12639	C	SER	H	17	69.778	151.635	111.865	1.00	15.34	H
ATOM	12640	O	SER	H	17	69.757	152.754	111.360	1.00	17.79	H
ATOM	12641	N	ALA	H	18	70.322	151.385	113.053	1.00	11.50	H
ATOM	12642	CA	ALA	H	18	70.949	152.451	113.820	1.00	13.33	H
ATOM	12643	CB	ALA	H	18	69.914	153.191	114.616	1.00	9.19	H
ATOM	12644	C	ALA	H	18	72.022	151.942	114.745	1.00	20.46	H
ATOM	12645	O	ALA	H	18	72.037	150.776	115.136	1.00	28.64	H
ATOM	12646	N	ASN	H	19	72.925	152.840	115.100	1.00	20.44	H
ATOM	12647	CA	ASN	H	19	74.013	152.524	116.004	1.00	18.51	H
ATOM	12648	CB	ASN	H	19	75.218	153.427	115.735	1.00	15.67	H
ATOM	12649	CG	ASN	H	19	76.009	153.009	114.519	1.00	19.55	H
ATOM	12650	OD1	ASN	H	19	75.675	152.032	113.843	1.00	17.22	H
ATOM	12651	ND2	ASN	H	19	77.072	153.753	114.229	1.00	12.94	H
ATOM	12652	C	ASN	H	19	73.566	152.788	117.429	1.00	24.30	H
ATOM	12653	O	ASN	H	19	72.847	153.743	117.702	1.00	25.28	H

ATOM	12654	N	VAL	H	20	73.998	151.947	118.348	1.00	26.27	H
ATOM	12655	CA	VAL	H	20	73.678	152.175	119.738	1.00	29.33	H
ATOM	12656	CB	VAL	H	20	72.744	151.105	120.248	1.00	31.78	H
ATOM	12657	CG1	VAL	H	20	72.321	151.445	121.666	1.00	32.27	H
ATOM	12658	CG2	VAL	H	20	71.542	151.017	119.331	1.00	19.05	H
ATOM	12659	C	VAL	H	20	75.001	152.149	120.503	1.00	29.38	H
ATOM	12660	O	VAL	H	20	75.631	151.107	120.605	1.00	32.35	H
ATOM	12661	N	TYR	H	21	75.419	153.301	121.018	1.00	26.67	H
ATOM	12662	CA	TYR	H	21	76.688	153.430	121.750	1.00	27.91	H
ATOM	12663	CB	TYR	H	21	77.302	154.800	121.461	1.00	18.11	H
ATOM	12664	CG	TYR	H	21	77.338	155.106	119.985	1.00	26.76	H
ATOM	12665	CD1	TYR	H	21	76.385	155.935	119.396	1.00	26.88	H
ATOM	12666	CE1	TYR	H	21	76.406	156.189	118.025	1.00	31.03	H
ATOM	12667	CD2	TYR	H	21	78.313	154.537	119.161	1.00	25.32	H
ATOM	12668	CE2	TYR	H	21	78.344	154.783	117.800	1.00	26.25	H
ATOM	12669	CZ	TYR	H	21	77.392	155.611	117.236	1.00	32.57	H
ATOM	12670	OH	TYR	H	21	77.452	155.895	115.892	1.00	33.76	H
ATOM	12671	C	TYR	H	21	76.569	153.228	123.266	1.00	30.86	H
ATOM	12672	O	TYR	H	21	75.886	153.999	123.963	1.00	32.36	H
ATOM	12673	N	VAL	H	22	77.267	152.213	123.779	1.00	32.66	H
ATOM	12674	CA	VAL	H	22	77.205	151.873	125.211	1.00	31.54	H
ATOM	12675	CB	VAL	H	22	76.697	150.451	125.431	1.00	28.89	H
ATOM	12676	CG1	VAL	H	22	75.319	150.283	124.815	1.00	28.90	H
ATOM	12677	CG2	VAL	H	22	77.685	149.478	124.837	1.00	24.46	H
ATOM	12678	C	VAL	H	22	78.486	151.941	126.012	1.00	31.80	H
ATOM	12679	O	VAL	H	22	79.526	151.445	125.573	1.00	32.31	H
ATOM	12680	N	ASN	H	23	78.390	152.529	127.206	1.00	32.77	H
ATOM	12681	CA	ASN	H	23	79.520	152.600	128.124	1.00	32.22	H
ATOM	12682	CB	ASN	H	23	79.399	153.816	128.997	1.00	32.89	H
ATOM	12683	CG	ASN	H	23	79.003	155.025	128.228	1.00	35.98	H
ATOM	12684	OD1	ASN	H	23	79.842	155.766	127.711	1.00	36.97	H
ATOM	12685	ND2	ASN	H	23	77.705	155.234	128.126	1.00	45.44	H
ATOM	12686	C	ASN	H	23	79.384	151.350	128.995	1.00	33.25	H
ATOM	12687	O	ASN	H	23	78.350	151.144	129.619	1.00	31.65	H
ATOM	12688	N	LEU	H	24	80.413	150.510	129.022	1.00	34.74	H
ATOM	12689	CA	LEU	H	24	80.375	149.275	129.809	1.00	34.93	H
ATOM	12690	CB	LEU	H	24	80.826	148.114	128.928	1.00	31.32	H
ATOM	12691	CG	LEU	H	24	80.141	147.962	127.569	1.00	26.62	H
ATOM	12692	CD1	LEU	H	24	81.096	147.242	126.625	1.00	26.26	H
ATOM	12693	CD2	LEU	H	24	78.839	147.187	127.695	1.00	27.48	H
ATOM	12694	C	LEU	H	24	81.268	149.315	131.062	1.00	34.35	H
ATOM	12695	O	LEU	H	24	82.199	150.119	131.143	1.00	37.76	H
ATOM	12696	N	ALA	H	25	80.981	148.450	132.034	1.00	30.06	H
ATOM	12697	CA	ALA	H	25	81.799	148.353	133.255	1.00	26.95	H
ATOM	12698	CB	ALA	H	25	81.402	147.134	134.024	1.00	23.45	H
ATOM	12699	C	ALA	H	25	83.250	148.213	132.792	1.00	29.95	H
ATOM	12700	O	ALA	H	25	83.578	147.319	132.031	1.00	36.65	H
ATOM	12701	N	PRO	H	26	84.141	149.073	133.259	1.00	28.65	H
ATOM	12702	CD	PRO	H	26	83.938	150.092	134.290	1.00	31.08	H
ATOM	12703	CA	PRO	H	26	85.551	149.018	132.846	1.00	32.29	H
ATOM	12704	CB	PRO	H	26	86.176	150.238	133.552	1.00	34.80	H
ATOM	12705	CG	PRO	H	26	85.013	151.101	133.919	1.00	38.87	H
ATOM	12706	C	PRO	H	26	86.335	147.733	133.158	1.00	34.22	H
ATOM	12707	O	PRO	H	26	87.314	147.415	132.481	1.00	31.56	H
ATOM	12708	N	VAL	H	27	85.907	147.020	134.193	1.00	36.73	H
ATOM	12709	CA	VAL	H	27	86.560	145.799	134.649	1.00	33.85	H
ATOM	12710	CB	VAL	H	27	87.354	146.066	135.930	1.00	36.71	H
ATOM	12711	CG1	VAL	H	27	87.883	144.772	136.498	1.00	34.79	H

ATOM	12712	CG2	VAL	H	27	88.468	147.055	135.648	1.00	34.61	H
ATOM	12713	C	VAL	H	27	85.553	144.722	134.983	1.00	34.39	H
ATOM	12714	O	VAL	H	27	84.554	144.966	135.648	1.00	38.08	H
ATOM	12715	N	VAL	H	28	85.834	143.513	134.544	1.00	35.25	H
ATOM	12716	CA	VAL	H	28	84.956	142.392	134.814	1.00	36.74	H
ATOM	12717	CB	VAL	H	28	84.025	142.136	133.615	1.00	33.49	H
ATOM	12718	CG1	VAL	H	28	83.026	141.032	133.932	1.00	38.00	H
ATOM	12719	CG2	VAL	H	28	83.309	143.404	133.261	1.00	37.70	H
ATOM	12720	C	VAL	H	28	85.886	141.200	135.035	1.00	42.52	H
ATOM	12721	O	VAL	H	28	86.873	141.019	134.310	1.00	45.38	H
ATOM	12722	N	ASN	H	29	85.584	140.389	136.041	1.00	43.02	H
ATOM	12723	CA	ASN	H	29	86.430	139.242	136.343	1.00	41.83	H
ATOM	12724	CB	ASN	H	29	86.526	139.010	137.850	1.00	32.97	H
ATOM	12725	CG	ASN	H	29	87.034	140.214	138.582	1.00	36.76	H
ATOM	12726	OD1	ASN	H	29	88.101	140.727	138.272	1.00	43.38	H
ATOM	12727	ND2	ASN	H	29	86.268	140.685	139.561	1.00	44.49	H
ATOM	12728	C	ASN	H	29	85.893	137.993	135.717	1.00	42.02	H
ATOM	12729	O	ASN	H	29	84.698	137.902	135.407	1.00	39.49	H
ATOM	12730	N	VAL	H	30	86.787	137.027	135.534	1.00	38.56	H
ATOM	12731	CA	VAL	H	30	86.377	135.751	134.991	1.00	39.25	H
ATOM	12732	CB	VAL	H	30	87.539	134.741	135.008	1.00	36.39	H
ATOM	12733	CG1	VAL	H	30	87.060	133.378	134.531	1.00	29.70	H
ATOM	12734	CG2	VAL	H	30	88.668	135.237	134.111	1.00	32.82	H
ATOM	12735	C	VAL	H	30	85.294	135.307	135.961	1.00	43.02	H
ATOM	12736	O	VAL	H	30	85.382	135.594	137.158	1.00	41.95	H
ATOM	12737	N	GLY	H	31	84.256	134.653	135.452	1.00	47.08	H
ATOM	12738	CA	GLY	H	31	83.196	134.196	136.330	1.00	51.53	H
ATOM	12739	C	GLY	H	31	82.056	135.178	136.533	1.00	54.95	H
ATOM	12740	O	GLY	H	31	80.921	134.753	136.744	1.00	59.80	H
ATOM	12741	N	GLN	H	32	82.341	136.477	136.476	1.00	53.43	H
ATOM	12742	CA	GLN	H	32	81.308	137.495	136.654	1.00	53.94	H
ATOM	12743	CB	GLN	H	32	81.942	138.792	137.147	1.00	55.58	H
ATOM	12744	CG	GLN	H	32	82.050	138.885	138.650	1.00	66.71	H
ATOM	12745	CD	GLN	H	32	83.014	139.972	139.096	1.00	74.54	H
ATOM	12746	OE1	GLN	H	32	83.051	141.069	138.520	1.00	73.83	H
ATOM	12747	NE2	GLN	H	32	83.795	139.677	140.144	1.00	75.98	H
ATOM	12748	C	GLN	H	32	80.482	137.779	135.392	1.00	54.55	H
ATOM	12749	O	GLN	H	32	80.710	137.200	134.327	1.00	55.30	H
ATOM	12750	N	ASN	H	33	79.510	138.671	135.534	1.00	51.86	H
ATOM	12751	CA	ASN	H	33	78.641	139.061	134.433	1.00	48.34	H
ATOM	12752	CB	ASN	H	33	77.173	138.903	134.821	1.00	44.56	H
ATOM	12753	CG	ASN	H	33	76.584	137.593	134.365	1.00	48.00	H
ATOM	12754	OD1	ASN	H	33	75.479	137.220	134.771	1.00	43.98	H
ATOM	12755	ND2	ASN	H	33	77.307	136.886	133.504	1.00	45.40	H
ATOM	12756	C	ASN	H	33	78.844	140.500	133.992	1.00	49.22	H
ATOM	12757	O	ASN	H	33	78.925	141.423	134.804	1.00	49.62	H
ATOM	12758	N	LEU	H	34	78.953	140.682	132.688	1.00	50.45	H
ATOM	12759	CA	LEU	H	34	79.060	142.012	132.126	1.00	48.18	H
ATOM	12760	CB	LEU	H	34	80.034	142.042	130.958	1.00	46.94	H
ATOM	12761	CG	LEU	H	34	79.968	143.319	130.128	1.00	43.54	H
ATOM	12762	CD1	LEU	H	34	80.653	144.463	130.855	1.00	35.10	H
ATOM	12763	CD2	LEU	H	34	80.619	143.049	128.783	1.00	44.88	H
ATOM	12764	C	LEU	H	34	77.629	142.169	131.621	1.00	47.46	H
ATOM	12765	O	LEU	H	34	77.097	141.288	130.923	1.00	43.03	H
ATOM	12766	N	VAL	H	35	76.989	143.261	131.998	1.00	45.47	H
ATOM	12767	CA	VAL	H	35	75.622	143.448	131.571	1.00	47.14	H
ATOM	12768	CB	VAL	H	35	74.692	143.587	132.789	1.00	50.14	H
ATOM	12769	CG1	VAL	H	35	73.245	143.695	132.334	1.00	50.25	H

ATOM	12770	CG2	VAL	H	35	74.869	142.380	133.697	1.00	47.46	H
ATOM	12771	C	VAL	H	35	75.431	144.636	130.656	1.00	42.01	H
ATOM	12772	O	VAL	H	35	75.795	145.757	130.997	1.00	38.95	H
ATOM	12773	N	VAL	H	36	74.871	144.371	129.480	1.00	39.01	H
ATOM	12774	CA	VAL	H	36	74.592	145.435	128.526	1.00	38.25	H
ATOM	12775	CB	VAL	H	36	75.125	145.129	127.130	1.00	36.54	H
ATOM	12776	CG1	VAL	H	36	75.368	146.429	126.409	1.00	41.12	H
ATOM	12777	CG2	VAL	H	36	76.387	144.317	127.216	1.00	33.82	H
ATOM	12778	C	VAL	H	36	73.086	145.497	128.456	1.00	37.76	H
ATOM	12779	O	VAL	H	36	72.436	144.631	127.854	1.00	37.78	H
ATOM	12780	N	ASP	H	37	72.519	146.507	129.098	1.00	37.77	H
ATOM	12781	CA	ASP	H	37	71.069	146.642	129.106	1.00	41.72	H
ATOM	12782	CB	ASP	H	37	70.609	147.069	130.495	1.00	44.61	H
ATOM	12783	CG	ASP	H	37	69.113	147.004	130.649	1.00	54.99	H
ATOM	12784	OD1	ASP	H	37	68.510	145.977	130.232	1.00	54.34	H
ATOM	12785	OD2	ASP	H	37	68.546	147.980	131.193	1.00	61.56	H
ATOM	12786	C	ASP	H	37	70.583	147.638	128.059	1.00	36.76	H
ATOM	12787	O	ASP	H	37	70.710	148.847	128.234	1.00	35.79	H
ATOM	12788	N	LEU	H	38	70.017	147.129	126.976	1.00	34.72	H
ATOM	12789	CA	LEU	H	38	69.555	148.011	125.913	1.00	40.30	H
ATOM	12790	CB	LEU	H	38	69.608	147.266	124.582	1.00	37.79	H
ATOM	12791	CG	LEU	H	38	71.080	146.961	124.322	1.00	32.44	H
ATOM	12792	CD1	LEU	H	38	71.191	145.999	123.206	1.00	45.75	H
ATOM	12793	CD2	LEU	H	38	71.835	148.234	124.003	1.00	32.64	H
ATOM	12794	C	LEU	H	38	68.187	148.641	126.144	1.00	40.42	H
ATOM	12795	O	LEU	H	38	67.861	149.678	125.538	1.00	33.54	H
ATOM	12796	N	SER	H	39	67.415	148.017	127.039	1.00	41.79	H
ATOM	12797	CA	SER	H	39	66.080	148.484	127.420	1.00	39.31	H
ATOM	12798	CB	SER	H	39	65.500	147.628	128.539	1.00	45.32	H
ATOM	12799	OG	SER	H	39	65.974	148.088	129.799	1.00	44.69	H
ATOM	12800	C	SER	H	39	66.242	149.884	127.958	1.00	35.64	H
ATOM	12801	O	SER	H	39	65.278	150.602	128.178	1.00	40.44	H
ATOM	12802	N	THR	H	40	67.479	150.265	128.197	1.00	32.48	H
ATOM	12803	CA	THR	H	40	67.739	151.587	128.696	1.00	32.64	H
ATOM	12804	CB	THR	H	40	68.889	151.545	129.713	1.00	34.13	H
ATOM	12805	OG1	THR	H	40	68.390	151.961	130.982	1.00	39.58	H
ATOM	12806	CG2	THR	H	40	70.038	152.452	129.305	1.00	26.11	H
ATOM	12807	C	THR	H	40	68.092	152.502	127.544	1.00	31.87	H
ATOM	12808	O	THR	H	40	68.115	153.723	127.695	1.00	29.68	H
ATOM	12809	N	GLN	H	41	68.349	151.918	126.378	1.00	34.12	H
ATOM	12810	CA	GLN	H	41	68.750	152.732	125.238	1.00	37.50	H
ATOM	12811	CB	GLN	H	41	70.212	152.453	124.917	1.00	40.53	H
ATOM	12812	CG	GLN	H	41	71.139	152.881	126.017	1.00	43.86	H
ATOM	12813	CD	GLN	H	41	72.355	153.531	125.464	1.00	49.74	H
ATOM	12814	OE1	GLN	H	41	73.278	152.861	124.985	1.00	56.08	H
ATOM	12815	NE2	GLN	H	41	72.368	154.857	125.489	1.00	59.08	H
ATOM	12816	C	GLN	H	41	67.938	152.627	123.958	1.00	36.18	H
ATOM	12817	O	GLN	H	41	68.154	153.415	123.034	1.00	30.21	H
ATOM	12818	N	ILE	H	42	67.015	151.668	123.901	1.00	33.75	H
ATOM	12819	CA	ILE	H	42	66.205	151.492	122.710	1.00	33.87	H
ATOM	12820	CB	ILE	H	42	66.588	150.199	121.994	1.00	29.62	H
ATOM	12821	CG2	ILE	H	42	65.794	150.056	120.715	1.00	34.04	H
ATOM	12822	CG1	ILE	H	42	68.070	150.221	121.658	1.00	31.81	H
ATOM	12823	CD1	ILE	H	42	68.557	148.918	121.088	1.00	39.41	H
ATOM	12824	C	ILE	H	42	64.705	151.481	123.030	1.00	38.17	H
ATOM	12825	O	ILE	H	42	64.207	150.623	123.779	1.00	35.57	H
ATOM	12826	N	PHE	H	43	63.994	152.441	122.436	1.00	40.00	H
ATOM	12827	CA	PHE	H	43	62.556	152.600	122.628	1.00	39.90	H

ATOM	12828	CB	PHE	H	43	62.278	153.916	123.332	1.00	36.12	H
ATOM	12829	CG	PHE	H	43	62.969	154.042	124.636	1.00	40.39	H
ATOM	12830	CD1	PHE	H	43	64.287	154.488	124.696	1.00	39.75	H
ATOM	12831	CD2	PHE	H	43	62.324	153.656	125.815	1.00	41.66	H
ATOM	12832	CE1	PHE	H	43	64.965	154.551	125.918	1.00	41.53	H
ATOM	12833	CE2	PHE	H	43	62.985	153.711	127.041	1.00	41.73	H
ATOM	12834	CZ	PHE	H	43	64.314	154.160	127.097	1.00	38.93	H
ATOM	12835	C	PHE	H	43	61.724	152.552	121.360	1.00	40.47	H
ATOM	12836	O	PHE	H	43	62.121	153.047	120.316	1.00	42.41	H
ATOM	12837	N	CYS	H	44	60.549	151.959	121.468	1.00	41.72	H
ATOM	12838	CA	CYS	H	44	59.647	151.883	120.335	1.00	43.26	H
ATOM	12839	C	CYS	H	44	58.222	152.270	120.773	1.00	43.43	H
ATOM	12840	O	CYS	H	44	57.927	152.406	121.963	1.00	44.44	H
ATOM	12841	CB	CYS	H	44	59.651	150.473	119.764	1.00	44.86	H
ATOM	12842	SG	CYS	H	44	61.289	149.821	119.319	1.00	44.72	H
ATOM	12843	N	HIS	H	45	57.343	152.465	119.803	1.00	41.24	H
ATOM	12844	CA	HIS	H	45	55.971	152.828	120.101	1.00	39.47	H
ATOM	12845	CB	HIS	H	45	55.835	154.336	120.298	1.00	36.31	H
ATOM	12846	CG	HIS	H	45	56.019	155.123	119.039	1.00	44.46	H
ATOM	12847	CD2	HIS	H	45	55.269	155.197	117.914	1.00	45.30	H
ATOM	12848	ND1	HIS	H	45	57.120	155.919	118.814	1.00	48.89	H
ATOM	12849	CE1	HIS	H	45	57.042	156.446	117.604	1.00	48.92	H
ATOM	12850	NE2	HIS	H	45	55.928	156.023	117.036	1.00	43.16	H
ATOM	12851	C	HIS	H	45	55.117	152.400	118.933	1.00	38.96	H
ATOM	12852	O	HIS	H	45	55.616	152.213	117.830	1.00	40.65	H
ATOM	12853	N	ASN	H	46	53.827	152.236	119.199	1.00	42.92	H
ATOM	12854	CA	ASN	H	46	52.831	151.850	118.207	1.00	43.79	H
ATOM	12855	CB	ASN	H	46	51.687	151.137	118.927	1.00	45.22	H
ATOM	12856	CG	ASN	H	46	50.773	150.395	117.986	1.00	46.38	H
ATOM	12857	OD1	ASN	H	46	50.414	150.900	116.922	1.00	46.42	H
ATOM	12858	ND2	ASN	H	46	50.376	149.191	118.380	1.00	36.81	H
ATOM	12859	C	ASN	H	46	52.342	153.184	117.635	1.00	44.30	H
ATOM	12860	O	ASN	H	46	52.174	154.141	118.382	1.00	44.25	H
ATOM	12861	N	ASP	H	47	52.124	153.278	116.330	1.00	45.99	H
ATOM	12862	CA	ASP	H	47	51.667	154.555	115.776	1.00	48.97	H
ATOM	12863	CB	ASP	H	47	52.278	154.787	114.384	1.00	46.99	H
ATOM	12864	CG	ASP	H	47	53.730	155.266	114.449	1.00	48.77	H
ATOM	12865	OD1	ASP	H	47	53.994	156.303	115.101	1.00	48.67	H
ATOM	12866	OD2	ASP	H	47	54.614	154.612	113.846	1.00	46.29	H
ATOM	12867	C	ASP	H	47	50.134	154.664	115.717	1.00	50.47	H
ATOM	12868	O	ASP	H	47	49.572	155.764	115.731	1.00	49.45	H
ATOM	12869	N	TYR	H	48	49.461	153.520	115.661	1.00	50.13	H
ATOM	12870	CA	TYR	H	48	48.011	153.503	115.620	1.00	51.22	H
ATOM	12871	CB	TYR	H	48	47.525	153.253	114.194	1.00	56.13	H
ATOM	12872	CG	TYR	H	48	48.111	154.223	113.184	1.00	63.59	H
ATOM	12873	CD1	TYR	H	48	49.267	153.896	112.465	1.00	66.42	H
ATOM	12874	CE1	TYR	H	48	49.839	154.792	111.566	1.00	68.04	H
ATOM	12875	CD2	TYR	H	48	47.538	155.479	112.972	1.00	63.98	H
ATOM	12876	CE2	TYR	H	48	48.105	156.389	112.073	1.00	67.88	H
ATOM	12877	CZ	TYR	H	48	49.259	156.036	111.378	1.00	68.27	H
ATOM	12878	OH	TYR	H	48	49.861	156.929	110.526	1.00	66.75	H
ATOM	12879	C	TYR	H	48	47.509	152.421	116.562	1.00	50.66	H
ATOM	12880	O	TYR	H	48	46.923	151.420	116.135	1.00	50.73	H
ATOM	12881	N	PRO	H	49	47.737	152.619	117.870	1.00	49.84	H
ATOM	12882	CD	PRO	H	49	48.340	153.829	118.454	1.00	50.91	H
ATOM	12883	CA	PRO	H	49	47.333	151.690	118.925	1.00	52.23	H
ATOM	12884	CB	PRO	H	49	47.687	152.447	120.208	1.00	51.62	H
ATOM	12885	CG	PRO	H	49	47.696	153.876	119.799	1.00	49.68	H

ATOM	12886	C	PRO	H	49	45.878	151.238	118.891	1.00	56.00	H
ATOM	12887	O	PRO	H	49	45.613	150.042	118.798	1.00	57.06	H
ATOM	12888	N	GLU	H	50	44.946	152.194	118.950	1.00	57.30	H
ATOM	12889	CA	GLU	H	50	43.501	151.912	118.947	1.00	56.19	H
ATOM	12890	CB	GLU	H	50	42.695	153.204	118.806	1.00	49.62	H
ATOM	12891	CG	GLU	H	50	43.067	154.302	119.768	1.00	56.53	H
ATOM	12892	CD	GLU	H	50	44.373	154.985	119.400	1.00	64.24	H
ATOM	12893	OE1	GLU	H	50	44.849	154.803	118.252	1.00	66.09	H
ATOM	12894	OE2	GLU	H	50	44.916	155.718	120.255	1.00	64.38	H
ATOM	12895	C	GLU	H	50	42.965	150.927	117.900	1.00	55.99	H
ATOM	12896	O	GLU	H	50	41.895	150.353	118.096	1.00	59.67	H
ATOM	12897	N	THR	H	51	43.675	150.721	116.798	1.00	51.44	H
ATOM	12898	CA	THR	H	51	43.163	149.810	115.781	1.00	53.62	H
ATOM	12899	CB	THR	H	51	42.653	150.606	114.551	1.00	53.14	H
ATOM	12900	OG1	THR	H	51	43.732	150.886	113.644	1.00	47.57	H
ATOM	12901	CG2	THR	H	51	42.082	151.924	115.018	1.00	55.05	H
ATOM	12902	C	THR	H	51	44.206	148.791	115.334	1.00	57.55	H
ATOM	12903	O	THR	H	51	43.891	147.816	114.639	1.00	59.63	H
ATOM	12904	N	ILE	H	52	45.455	149.014	115.729	1.00	54.88	H
ATOM	12905	CA	ILE	H	52	46.499	148.095	115.341	1.00	49.60	H
ATOM	12906	CB	ILE	H	52	47.406	148.725	114.290	1.00	51.31	H
ATOM	12907	CG2	ILE	H	52	48.533	147.759	113.920	1.00	51.34	H
ATOM	12908	CG1	ILE	H	52	46.575	149.089	113.056	1.00	49.59	H
ATOM	12909	CD1	ILE	H	52	47.363	149.747	111.950	1.00	51.46	H
ATOM	12910	C	ILE	H	52	47.335	147.676	116.525	1.00	47.79	H
ATOM	12911	O	ILE	H	52	47.680	148.494	117.371	1.00	45.81	H
ATOM	12912	N	THR	H	53	47.628	146.383	116.594	1.00	48.78	H
ATOM	12913	CA	THR	H	53	48.466	145.848	117.655	1.00	51.17	H
ATOM	12914	CB	THR	H	53	47.793	144.666	118.373	1.00	54.00	H
ATOM	12915	OG1	THR	H	53	46.872	145.170	119.352	1.00	54.76	H
ATOM	12916	CG2	THR	H	53	48.835	143.797	119.067	1.00	52.35	H
ATOM	12917	C	THR	H	53	49.788	145.394	117.044	1.00	50.18	H
ATOM	12918	O	THR	H	53	49.812	144.596	116.096	1.00	49.37	H
ATOM	12919	N	ASP	H	54	50.882	145.921	117.588	1.00	49.78	H
ATOM	12920	CA	ASP	H	54	52.216	145.597	117.094	1.00	48.84	H
ATOM	12921	CB	ASP	H	54	53.099	146.862	117.094	1.00	47.98	H
ATOM	12922	CG	ASP	H	54	52.724	147.847	115.985	1.00	44.11	H
ATOM	12923	OD1	ASP	H	54	52.463	147.387	114.855	1.00	45.95	H
ATOM	12924	OD2	ASP	H	54	52.708	149.076	116.231	1.00	41.17	H
ATOM	12925	C	ASP	H	54	52.902	144.482	117.886	1.00	46.52	H
ATOM	12926	O	ASP	H	54	52.783	144.410	119.114	1.00	42.78	H
ATOM	12927	N	TYR	H	55	53.617	143.621	117.157	1.00	48.99	H
ATOM	12928	CA	TYR	H	55	54.370	142.485	117.723	1.00	48.91	H
ATOM	12929	CB	TYR	H	55	53.930	141.173	117.076	1.00	50.27	H
ATOM	12930	CG	TYR	H	55	52.451	140.896	117.171	1.00	54.29	H
ATOM	12931	CD1	TYR	H	55	51.741	140.472	116.044	1.00	53.18	H
ATOM	12932	CE1	TYR	H	55	50.378	140.233	116.095	1.00	50.37	H
ATOM	12933	CD2	TYR	H	55	51.756	141.071	118.372	1.00	51.28	H
ATOM	12934	CE2	TYR	H	55	50.382	140.834	118.439	1.00	56.09	H
ATOM	12935	CZ	TYR	H	55	49.698	140.415	117.288	1.00	53.60	H
ATOM	12936	OH	TYR	H	55	48.335	140.197	117.312	1.00	46.42	H
ATOM	12937	C	TYR	H	55	55.871	142.638	117.492	1.00	44.98	H
ATOM	12938	O	TYR	H	55	56.337	142.577	116.353	1.00	43.63	H
ATOM	12939	N	VAL	H	56	56.616	142.821	118.578	1.00	45.31	H
ATOM	12940	CA	VAL	H	56	58.063	142.983	118.503	1.00	44.81	H
ATOM	12941	CB	VAL	H	56	58.515	144.152	119.355	1.00	47.63	H
ATOM	12942	CG1	VAL	H	56	60.036	144.263	119.319	1.00	52.24	H
ATOM	12943	CG2	VAL	H	56	57.880	145.419	118.827	1.00	48.75	H

ATOM	12944	C	VAL	H	56	58.780	141.726	118.951	1.00	42.23	H
ATOM	12945	O	VAL	H	56	58.488	141.163	119.988	1.00	43.97	H
ATOM	12946	N	THR	H	57	59.762	141.314	118.173	1.00	42.83	H
ATOM	12947	CA	THR	H	57	60.480	140.080	118.447	1.00	39.36	H
ATOM	12948	CB	THR	H	57	59.987	139.049	117.426	1.00	31.35	H
ATOM	12949	OG1	THR	H	57	59.956	137.750	117.998	1.00	35.68	H
ATOM	12950	CG2	THR	H	57	60.883	139.046	116.228	1.00	24.43	H
ATOM	12951	C	THR	H	57	62.008	140.257	118.307	1.00	39.93	H
ATOM	12952	O	THR	H	57	62.454	141.142	117.577	1.00	41.39	H
ATOM	12953	N	LEU	H	58	62.805	139.443	119.006	1.00	39.02	H
ATOM	12954	CA	LEU	H	58	64.261	139.521	118.848	1.00	41.61	H
ATOM	12955	CB	LEU	H	58	65.010	139.215	120.152	1.00	41.04	H
ATOM	12956	CG	LEU	H	58	66.541	139.103	119.967	1.00	41.52	H
ATOM	12957	CD1	LEU	H	58	67.112	140.459	119.582	1.00	35.31	H
ATOM	12958	CD2	LEU	H	58	67.214	138.601	121.229	1.00	36.30	H
ATOM	12959	C	LEU	H	58	64.656	138.484	117.786	1.00	42.58	H
ATOM	12960	O	LEU	H	58	65.086	137.376	118.110	1.00	45.64	H
ATOM	12961	N	GLN	H	59	64.495	138.870	116.522	1.00	41.54	H
ATOM	12962	CA	GLN	H	59	64.780	138.044	115.347	1.00	41.43	H
ATOM	12963	CB	GLN	H	59	64.748	138.935	114.102	1.00	43.96	H
ATOM	12964	CG	GLN	H	59	63.934	138.420	112.927	1.00	56.01	H
ATOM	12965	CD	GLN	H	59	64.299	137.010	112.512	1.00	64.61	H
ATOM	12966	OE1	GLN	H	59	63.859	136.035	113.124	1.00	71.02	H
ATOM	12967	NE2	GLN	H	59	65.114	136.893	111.469	1.00	68.92	H
ATOM	12968	C	GLN	H	59	66.124	137.306	115.388	1.00	39.98	H
ATOM	12969	O	GLN	H	59	66.199	136.106	115.113	1.00	37.40	H
ATOM	12970	N	ARG	H	60	67.183	138.042	115.710	1.00	39.04	H
ATOM	12971	CA	ARG	H	60	68.528	137.483	115.771	1.00	39.09	H
ATOM	12972	CB	ARG	H	60	69.102	137.400	114.353	1.00	40.81	H
ATOM	12973	CG	ARG	H	60	70.393	136.609	114.213	1.00	51.11	H
ATOM	12974	CD	ARG	H	60	70.954	136.706	112.790	1.00	58.28	H
ATOM	12975	NE	ARG	H	60	69.930	137.073	111.805	1.00	74.32	H
ATOM	12976	CZ	ARG	H	60	68.884	136.315	111.460	1.00	78.20	H
ATOM	12977	NH1	ARG	H	60	68.699	135.118	112.016	1.00	78.94	H
ATOM	12978	NH2	ARG	H	60	68.008	136.762	110.561	1.00	77.30	H
ATOM	12979	C	ARG	H	60	69.429	138.348	116.667	1.00	37.95	H
ATOM	12980	O	ARG	H	60	69.189	139.540	116.852	1.00	40.09	H
ATOM	12981	N	GLY	H	61	70.454	137.729	117.236	1.00	36.13	H
ATOM	12982	CA	GLY	H	61	71.382	138.425	118.106	1.00	32.39	H
ATOM	12983	C	GLY	H	61	72.740	137.878	117.746	1.00	35.07	H
ATOM	12984	O	GLY	H	61	72.936	136.669	117.763	1.00	39.32	H
ATOM	12985	N	SER	H	62	73.682	138.754	117.419	1.00	35.35	H
ATOM	12986	CA	SER	H	62	74.997	138.306	117.011	1.00	33.76	H
ATOM	12987	CB	SER	H	62	75.137	138.481	115.506	1.00	33.29	H
ATOM	12988	OG	SER	H	62	74.155	137.715	114.840	1.00	34.20	H
ATOM	12989	C	SER	H	62	76.118	139.025	117.709	1.00	36.15	H
ATOM	12990	O	SER	H	62	76.026	140.226	117.960	1.00	43.16	H
ATOM	12991	N	ALA	H	63	77.190	138.286	117.990	1.00	34.59	H
ATOM	12992	CA	ALA	H	63	78.364	138.825	118.676	1.00	30.88	H
ATOM	12993	CB	ALA	H	63	78.842	137.845	119.718	1.00	28.52	H
ATOM	12994	C	ALA	H	63	79.501	139.150	117.723	1.00	27.87	H
ATOM	12995	O	ALA	H	63	79.628	138.543	116.679	1.00	30.16	H
ATOM	12996	N	TYR	H	64	80.328	140.113	118.104	1.00	27.42	H
ATOM	12997	CA	TYR	H	64	81.458	140.550	117.302	1.00	27.45	H
ATOM	12998	CB	TYR	H	64	81.081	141.789	116.469	1.00	30.12	H
ATOM	12999	CG	TYR	H	64	80.051	141.498	115.402	1.00	36.26	H
ATOM	13000	CD1	TYR	H	64	78.683	141.526	115.692	1.00	40.02	H
ATOM	13001	CE1	TYR	H	64	77.740	141.131	114.750	1.00	43.96	H

ATOM	13002	CD2	TYR	H	64	80.442	141.083	114.137	1.00	34.12	H
ATOM	13003	CE2	TYR	H	64	79.510	140.693	113.193	1.00	39.19	H
ATOM	13004	CZ	TYR	H	64	78.167	140.711	113.501	1.00	46.56	H
ATOM	13005	OH	TYR	H	64	77.265	140.276	112.557	1.00	53.55	H
ATOM	13006	C	TYR	H	64	82.673	140.874	118.161	1.00	28.61	H
ATOM	13007	O	TYR	H	64	82.558	141.134	119.364	1.00	31.72	H
ATOM	13008	N	GLY	H	65	83.839	140.859	117.524	1.00	25.86	H
ATOM	13009	CA	GLY	H	65	85.081	141.150	118.211	1.00	25.51	H
ATOM	13010	C	GLY	H	65	85.223	140.402	119.518	1.00	27.96	H
ATOM	13011	O	GLY	H	65	84.900	139.201	119.614	1.00	26.67	H
ATOM	13012	N	GLY	H	66	85.689	141.122	120.534	1.00	28.62	H
ATOM	13013	CA	GLY	H	66	85.896	140.525	121.839	1.00	30.12	H
ATOM	13014	C	GLY	H	66	84.715	139.747	122.359	1.00	29.00	H
ATOM	13015	O	GLY	H	66	84.866	138.634	122.817	1.00	34.81	H
ATOM	13016	N	VAL	H	67	83.532	140.324	122.284	1.00	29.76	H
ATOM	13017	CA	VAL	H	67	82.360	139.633	122.773	1.00	31.55	H
ATOM	13018	CB	VAL	H	67	81.085	140.356	122.350	1.00	30.24	H
ATOM	13019	CG1	VAL	H	67	79.877	139.430	122.540	1.00	26.49	H
ATOM	13020	CG2	VAL	H	67	80.923	141.635	123.171	1.00	20.16	H
ATOM	13021	C	VAL	H	67	82.295	138.212	122.259	1.00	35.09	H
ATOM	13022	O	VAL	H	67	81.930	137.289	122.985	1.00	37.06	H
ATOM	13023	N	LEU	H	68	82.669	138.053	121.001	1.00	37.84	H
ATOM	13024	CA	LEU	H	68	82.637	136.771	120.315	1.00	40.20	H
ATOM	13025	CB	LEU	H	68	82.757	137.038	118.822	1.00	41.41	H
ATOM	13026	CG	LEU	H	68	82.497	135.945	117.796	1.00	36.75	H
ATOM	13027	CD1	LEU	H	68	81.105	135.369	117.971	1.00	27.91	H
ATOM	13028	CD2	LEU	H	68	82.664	136.562	116.408	1.00	32.67	H
ATOM	13029	C	LEU	H	68	83.722	135.788	120.734	1.00	42.38	H
ATOM	13030	O	LEU	H	68	83.501	134.580	120.782	1.00	43.67	H
ATOM	13031	N	SER	H	69	84.897	136.305	121.042	1.00	41.42	H
ATOM	13032	CA	SER	H	69	85.997	135.431	121.396	1.00	41.68	H
ATOM	13033	CB	SER	H	69	87.276	135.918	120.716	1.00	41.91	H
ATOM	13034	OG	SER	H	69	87.575	137.251	121.093	1.00	37.32	H
ATOM	13035	C	SER	H	69	86.274	135.267	122.871	1.00	42.29	H
ATOM	13036	O	SER	H	69	86.843	134.256	123.265	1.00	44.16	H
ATOM	13037	N	ASN	H	70	85.870	136.243	123.682	1.00	41.37	H
ATOM	13038	CA	ASN	H	70	86.133	136.207	125.116	1.00	40.97	H
ATOM	13039	CB	ASN	H	70	86.830	137.499	125.526	1.00	40.95	H
ATOM	13040	CG	ASN	H	70	88.046	137.783	124.677	1.00	46.42	H
ATOM	13041	OD1	ASN	H	70	88.715	136.859	124.230	1.00	51.66	H
ATOM	13042	ND2	ASN	H	70	88.347	139.061	124.454	1.00	49.50	H
ATOM	13043	C	ASN	H	70	84.955	135.977	126.053	1.00	43.86	H
ATOM	13044	O	ASN	H	70	85.127	135.939	127.275	1.00	48.34	H
ATOM	13045	N	PHE	H	71	83.759	135.813	125.514	1.00	40.84	H
ATOM	13046	CA	PHE	H	71	82.631	135.642	126.403	1.00	37.17	H
ATOM	13047	CB	PHE	H	71	81.815	136.936	126.464	1.00	27.87	H
ATOM	13048	CG	PHE	H	71	82.549	138.105	127.041	1.00	20.77	H
ATOM	13049	CD1	PHE	H	71	83.486	138.798	126.289	1.00	26.02	H
ATOM	13050	CD2	PHE	H	71	82.296	138.523	128.354	1.00	17.04	H
ATOM	13051	CE1	PHE	H	71	84.174	139.914	126.847	1.00	33.80	H
ATOM	13052	CE2	PHE	H	71	82.967	139.620	128.917	1.00	16.23	H
ATOM	13053	CZ	PHE	H	71	83.907	140.320	128.167	1.00	21.24	H
ATOM	13054	C	PHE	H	71	81.694	134.515	126.016	1.00	41.37	H
ATOM	13055	O	PHE	H	71	81.722	133.999	124.885	1.00	41.18	H
ATOM	13056	N	SER	H	72	80.876	134.127	126.987	1.00	37.95	H
ATOM	13057	CA	SER	H	72	79.850	133.121	126.786	1.00	44.48	H
ATOM	13058	CB	SER	H	72	80.143	131.837	127.565	1.00	46.06	H
ATOM	13059	OG	SER	H	72	80.038	132.042	128.959	1.00	54.21	H

ATOM	13060	C	SER	H	72	78.668	133.862	127.390	1.00	45.51	H
ATOM	13061	O	SER	H	72	78.809	134.522	128.422	1.00	45.45	H
ATOM	13062	N	GLY	H	73	77.505	133.798	126.763	1.00	45.38	H
ATOM	13063	CA	GLY	H	73	76.434	134.553	127.359	1.00	45.36	H
ATOM	13064	C	GLY	H	73	75.027	134.271	126.942	1.00	42.65	H
ATOM	13065	O	GLY	H	73	74.754	133.451	126.059	1.00	37.46	H
ATOM	13066	N	THR	H	74	74.126	134.974	127.613	1.00	42.99	H
ATOM	13067	CA	THR	H	74	72.719	134.823	127.333	1.00	48.28	H
ATOM	13068	CB	THR	H	74	71.941	134.218	128.544	1.00	49.51	H
ATOM	13069	OG1	THR	H	74	71.930	135.157	129.627	1.00	51.88	H
ATOM	13070	CG2	THR	H	74	72.585	132.913	129.004	1.00	40.79	H
ATOM	13071	C	THR	H	74	72.121	136.171	127.010	1.00	46.62	H
ATOM	13072	O	THR	H	74	72.728	137.222	127.256	1.00	41.57	H
ATOM	13073	N	VAL	H	75	70.928	136.118	126.431	1.00	48.71	H
ATOM	13074	CA	VAL	H	75	70.187	137.324	126.105	1.00	48.74	H
ATOM	13075	CB	VAL	H	75	69.933	137.475	124.570	1.00	50.10	H
ATOM	13076	CG1	VAL	H	75	69.196	136.244	124.009	1.00	45.39	H
ATOM	13077	CG2	VAL	H	75	69.150	138.750	124.315	1.00	39.89	H
ATOM	13078	C	VAL	H	75	68.859	137.219	126.836	1.00	46.24	H
ATOM	13079	O	VAL	H	75	68.129	136.235	126.678	1.00	40.73	H
ATOM	13080	N	LYS	H	76	68.574	138.210	127.669	1.00	45.88	H
ATOM	13081	CA	LYS	H	76	67.319	138.220	128.390	1.00	49.05	H
ATOM	13082	CB	LYS	H	76	67.516	138.742	129.812	1.00	54.08	H
ATOM	13083	CG	LYS	H	76	66.350	138.405	130.737	1.00	56.83	H
ATOM	13084	CD	LYS	H	76	66.587	138.868	132.167	1.00	60.98	H
ATOM	13085	CE	LYS	H	76	65.441	138.426	133.086	1.00	59.88	H
ATOM	13086	NZ	LYS	H	76	65.639	138.839	134.511	1.00	59.17	H
ATOM	13087	C	LYS	H	76	66.331	139.119	127.646	1.00	51.71	H
ATOM	13088	O	LYS	H	76	66.464	140.349	127.658	1.00	53.30	H
ATOM	13089	N	TYR	H	77	65.348	138.501	126.993	1.00	50.52	H
ATOM	13090	CA	TYR	H	77	64.335	139.246	126.258	1.00	49.13	H
ATOM	13091	CB	TYR	H	77	64.177	138.717	124.842	1.00	40.24	H
ATOM	13092	CG	TYR	H	77	63.206	139.547	124.041	1.00	44.97	H
ATOM	13093	CD1	TYR	H	77	63.392	140.919	123.907	1.00	42.46	H
ATOM	13094	CE1	TYR	H	77	62.546	141.683	123.116	1.00	48.36	H
ATOM	13095	CD2	TYR	H	77	62.132	138.958	123.369	1.00	47.10	H
ATOM	13096	CE2	TYR	H	77	61.272	139.712	122.569	1.00	39.83	H
ATOM	13097	CZ	TYR	H	77	61.487	141.076	122.439	1.00	49.38	H
ATOM	13098	OH	TYR	H	77	60.695	141.833	121.587	1.00	49.64	H
ATOM	13099	C	TYR	H	77	62.964	139.197	126.899	1.00	51.98	H
ATOM	13100	O	TYR	H	77	62.264	138.191	126.775	1.00	54.14	H
ATOM	13101	N	SER	H	78	62.570	140.276	127.565	1.00	51.82	H
ATOM	13102	CA	SER	H	78	61.246	140.327	128.160	1.00	55.21	H
ATOM	13103	CB	SER	H	78	60.183	140.175	127.047	1.00	54.95	H
ATOM	13104	OG	SER	H	78	58.849	140.361	127.512	1.00	53.68	H
ATOM	13105	C	SER	H	78	61.047	139.253	129.224	1.00	58.36	H
ATOM	13106	O	SER	H	78	60.105	138.462	129.149	1.00	62.09	H
ATOM	13107	N	GLY	H	79	61.936	139.205	130.207	1.00	59.27	H
ATOM	13108	CA	GLY	H	79	61.775	138.218	131.262	1.00	61.35	H
ATOM	13109	C	GLY	H	79	62.408	136.850	131.068	1.00	62.48	H
ATOM	13110	O	GLY	H	79	62.753	136.206	132.054	1.00	65.66	H
ATOM	13111	N	SER	H	80	62.551	136.394	129.825	1.00	61.03	H
ATOM	13112	CA	SER	H	80	63.159	135.090	129.549	1.00	60.21	H
ATOM	13113	CB	SER	H	80	62.308	134.309	128.558	1.00	58.76	H
ATOM	13114	OG	SER	H	80	61.066	133.998	129.142	1.00	66.38	H
ATOM	13115	C	SER	H	80	64.581	135.198	129.004	1.00	60.51	H
ATOM	13116	O	SER	H	80	64.981	136.250	128.502	1.00	61.17	H
ATOM	13117	N	SER	H	81	65.340	134.105	129.100	1.00	58.72	H

ATOM	13118	CA	SER	H	81	66.721	134.095	128.616	1.00	54.86	H
ATOM	13119	CB	SER	H	81	67.709	133.845	129.762	1.00	57.85	H
ATOM	13120	OG	SER	H	81	68.253	135.062	130.259	1.00	56.81	H
ATOM	13121	C	SER	H	81	66.970	133.093	127.507	1.00	51.55	H
ATOM	13122	O	SER	H	81	66.325	132.055	127.412	1.00	47.45	H
ATOM	13123	N	TYR	H	82	67.913	133.429	126.645	1.00	52.32	H
ATOM	13124	CA	TYR	H	82	68.228	132.563	125.525	1.00	51.51	H
ATOM	13125	CB	TYR	H	82	67.446	132.987	124.262	1.00	50.36	H
ATOM	13126	CG	TYR	H	82	65.971	133.249	124.488	1.00	53.10	H
ATOM	13127	CD1	TYR	H	82	65.536	134.381	125.191	1.00	52.88	H
ATOM	13128	CE1	TYR	H	82	64.183	134.597	125.458	1.00	55.13	H
ATOM	13129	CD2	TYR	H	82	65.008	132.343	124.047	1.00	58.51	H
ATOM	13130	CE2	TYR	H	82	63.637	132.553	124.306	1.00	55.70	H
ATOM	13131	CZ	TYR	H	82	63.237	133.679	125.014	1.00	58.91	H
ATOM	13132	OH	TYR	H	82	61.897	133.888	125.289	1.00	64.64	H
ATOM	13133	C	TYR	H	82	69.722	132.659	125.260	1.00	48.44	H
ATOM	13134	O	TYR	H	82	70.401	133.608	125.687	1.00	47.16	H
ATOM	13135	N	PRO	H	83	70.253	131.666	124.551	1.00	43.43	H
ATOM	13136	CD	PRO	H	83	69.531	130.461	124.125	1.00	37.32	H
ATOM	13137	CA	PRO	H	83	71.668	131.584	124.195	1.00	43.86	H
ATOM	13138	CB	PRO	H	83	71.758	130.244	123.483	1.00	40.23	H
ATOM	13139	CG	PRO	H	83	70.626	129.465	124.074	1.00	42.78	H
ATOM	13140	C	PRO	H	83	72.082	132.731	123.276	1.00	46.13	H
ATOM	13141	O	PRO	H	83	71.418	133.003	122.284	1.00	50.65	H
ATOM	13142	N	PHE	H	84	73.177	133.399	123.604	1.00	45.75	H
ATOM	13143	CA	PHE	H	84	73.676	134.485	122.770	1.00	43.98	H
ATOM	13144	CB	PHE	H	84	73.535	135.825	123.488	1.00	41.07	H
ATOM	13145	CG	PHE	H	84	74.104	136.976	122.724	1.00	36.57	H
ATOM	13146	CD1	PHE	H	84	73.387	137.555	121.686	1.00	33.54	H
ATOM	13147	CD2	PHE	H	84	75.374	137.478	123.028	1.00	37.39	H
ATOM	13148	CE1	PHE	H	84	73.924	138.623	120.956	1.00	38.20	H
ATOM	13149	CE2	PHE	H	84	75.919	138.548	122.302	1.00	35.93	H
ATOM	13150	CZ	PHE	H	84	75.190	139.120	121.266	1.00	33.85	H
ATOM	13151	C	PHE	H	84	75.155	134.227	122.457	1.00	46.36	H
ATOM	13152	O	PHE	H	84	75.970	134.028	123.371	1.00	50.94	H
ATOM	13153	N	PRO	H	85	75.533	134.247	121.163	1.00	44.10	H
ATOM	13154	CD	PRO	H	85	76.949	134.038	120.811	1.00	37.15	H
ATOM	13155	CA	PRO	H	85	74.732	134.483	119.953	1.00	41.53	H
ATOM	13156	CB	PRO	H	85	75.664	134.024	118.843	1.00	36.51	H
ATOM	13157	CG	PRO	H	85	76.997	134.487	119.368	1.00	35.59	H
ATOM	13158	C	PRO	H	85	73.423	133.718	119.973	1.00	40.05	H
ATOM	13159	O	PRO	H	85	73.359	132.629	120.518	1.00	43.36	H
ATOM	13160	N	THR	H	86	72.381	134.290	119.387	1.00	37.54	H
ATOM	13161	CA	THR	H	86	71.081	133.643	119.387	1.00	38.77	H
ATOM	13162	CB	THR	H	86	69.977	134.635	119.064	1.00	33.11	H
ATOM	13163	OG1	THR	H	86	70.094	135.045	117.699	1.00	27.81	H
ATOM	13164	CG2	THR	H	86	70.067	135.843	119.972	1.00	32.79	H
ATOM	13165	C	THR	H	86	71.021	132.513	118.386	1.00	45.32	H
ATOM	13166	O	THR	H	86	71.807	132.469	117.445	1.00	46.95	H
ATOM	13167	N	THR	H	87	70.071	131.607	118.585	1.00	52.43	H
ATOM	13168	CA	THR	H	87	69.913	130.447	117.702	1.00	56.26	H
ATOM	13169	CB	THR	H	87	70.254	129.157	118.454	1.00	53.52	H
ATOM	13170	OG1	THR	H	87	69.707	129.228	119.780	1.00	61.07	H
ATOM	13171	CG2	THR	H	87	71.746	128.964	118.527	1.00	50.32	H
ATOM	13172	C	THR	H	87	68.503	130.292	117.116	1.00	58.25	H
ATOM	13173	O	THR	H	87	68.280	129.461	116.235	1.00	53.48	H
ATOM	13174	N	SER	H	88	67.560	131.090	117.613	1.00	61.42	H
ATOM	13175	CA	SER	H	88	66.181	131.034	117.144	1.00	62.00	H

ATOM	13176	CB	SER	H	88	65.393	129.995	117.947	1.00	63.27	H
ATOM	13177	OG	SER	H	88	65.141	130.451	119.268	1.00	60.73	H
ATOM	13178	C	SER	H	88	65.506	132.387	117.318	1.00	62.68	H
ATOM	13179	O	SER	H	88	65.929	133.195	118.147	1.00	61.42	H
ATOM	13180	N	GLU	H	89	64.458	132.638	116.536	1.00	62.05	H
ATOM	13181	CA	GLU	H	89	63.728	133.888	116.683	1.00	58.84	H
ATOM	13182	CB	GLU	H	89	62.782	134.142	115.506	1.00	60.76	H
ATOM	13183	CG	GLU	H	89	61.686	135.155	115.831	1.00	57.84	H
ATOM	13184	CD	GLU	H	89	61.055	135.767	114.601	1.00	57.21	H
ATOM	13185	OE1	GLU	H	89	60.795	135.042	113.619	1.00	58.47	H
ATOM	13186	OE2	GLU	H	89	60.803	136.982	114.619	1.00	56.37	H
ATOM	13187	C	GLU	H	89	62.932	133.757	117.970	1.00	54.85	H
ATOM	13188	O	GLU	H	89	62.211	132.789	118.187	1.00	53.90	H
ATOM	13189	N	THR	H	90	63.086	134.757	118.816	1.00	53.12	H
ATOM	13190	CA	THR	H	90	62.451	134.812	120.114	1.00	50.23	H
ATOM	13191	CB	THR	H	90	63.037	135.984	120.887	1.00	48.38	H
ATOM	13192	OG1	THR	H	90	63.294	135.580	122.231	1.00	52.50	H
ATOM	13193	CG2	THR	H	90	62.092	137.170	120.857	1.00	43.64	H
ATOM	13194	C	THR	H	90	60.936	134.950	120.054	1.00	51.06	H
ATOM	13195	O	THR	H	90	60.373	135.169	118.988	1.00	51.20	H
ATOM	13196	N	PRO	H	91	60.253	134.783	121.204	1.00	54.73	H
ATOM	13197	CD	PRO	H	91	60.765	134.148	122.433	1.00	55.60	H
ATOM	13198	CA	PRO	H	91	58.789	134.906	121.265	1.00	54.93	H
ATOM	13199	CB	PRO	H	91	58.460	134.411	122.676	1.00	54.58	H
ATOM	13200	CG	PRO	H	91	59.546	133.419	122.949	1.00	53.99	H
ATOM	13201	C	PRO	H	91	58.438	136.380	121.071	1.00	53.04	H
ATOM	13202	O	PRO	H	91	59.295	137.238	121.264	1.00	53.75	H
ATOM	13203	N	ARG	H	92	57.190	136.677	120.719	1.00	54.47	H
ATOM	13204	CA	ARG	H	92	56.786	138.066	120.478	1.00	55.52	H
ATOM	13205	CB	ARG	H	92	55.849	138.137	119.258	1.00	57.69	H
ATOM	13206	CG	ARG	H	92	54.559	137.336	119.364	1.00	69.34	H
ATOM	13207	CD	ARG	H	92	53.638	137.605	118.161	1.00	70.51	H
ATOM	13208	NE	ARG	H	92	52.267	137.097	118.325	1.00	74.58	H
ATOM	13209	CZ	ARG	H	92	51.536	137.211	119.438	1.00	76.26	H
ATOM	13210	NH1	ARG	H	92	52.032	137.807	120.519	1.00	76.71	H
ATOM	13211	NH2	ARG	H	92	50.286	136.763	119.459	1.00	73.93	H
ATOM	13212	C	ARG	H	92	56.167	138.862	121.632	1.00	51.41	H
ATOM	13213	O	ARG	H	92	55.292	138.376	122.336	1.00	57.04	H
ATOM	13214	N	VAL	H	93	56.656	140.087	121.815	1.00	43.97	H
ATOM	13215	CA	VAL	H	93	56.167	141.017	122.829	1.00	40.40	H
ATOM	13216	CB	VAL	H	93	57.299	141.831	123.448	1.00	35.20	H
ATOM	13217	CG1	VAL	H	93	56.736	142.842	124.420	1.00	38.58	H
ATOM	13218	CG2	VAL	H	93	58.258	140.929	124.144	1.00	41.73	H
ATOM	13219	C	VAL	H	93	55.247	142.001	122.098	1.00	43.58	H
ATOM	13220	O	VAL	H	93	55.452	142.263	120.910	1.00	46.51	H
ATOM	13221	N	VAL	H	94	54.242	142.554	122.780	1.00	44.19	H
ATOM	13222	CA	VAL	H	94	53.353	143.483	122.091	1.00	43.37	H
ATOM	13223	CB	VAL	H	94	51.841	143.105	122.203	1.00	41.16	H
ATOM	13224	CG1	VAL	H	94	51.659	141.592	122.090	1.00	37.85	H
ATOM	13225	CG2	VAL	H	94	51.240	143.676	123.473	1.00	32.68	H
ATOM	13226	C	VAL	H	94	53.489	144.925	122.532	1.00	46.63	H
ATOM	13227	O	VAL	H	94	53.700	145.233	123.713	1.00	45.43	H
ATOM	13228	N	TYR	H	95	53.377	145.799	121.538	1.00	47.41	H
ATOM	13229	CA	TYR	H	95	53.442	147.227	121.738	1.00	44.73	H
ATOM	13230	CB	TYR	H	95	54.556	147.831	120.881	1.00	42.81	H
ATOM	13231	CG	TYR	H	95	55.917	147.615	121.472	1.00	36.95	H
ATOM	13232	CD1	TYR	H	95	56.478	146.353	121.511	1.00	36.75	H
ATOM	13233	CE1	TYR	H	95	57.679	146.130	122.142	1.00	38.37	H

ATOM	13234	CD2	TYR	H	95	56.603	148.661	122.079	1.00	41.54	H
ATOM	13235	CE2	TYR	H	95	57.803	148.448	122.720	1.00	42.46	H
ATOM	13236	CZ	TYR	H	95	58.333	147.175	122.750	1.00	43.78	H
ATOM	13237	OH	TYR	H	95	59.514	146.930	123.416	1.00	51.70	H
ATOM	13238	C	TYR	H	95	52.088	147.786	121.329	1.00	44.07	H
ATOM	13239	O	TYR	H	95	51.628	147.568	120.197	1.00	44.40	H
ATOM	13240	N	ASN	H	96	51.460	148.494	122.262	1.00	39.68	H
ATOM	13241	CA	ASN	H	96	50.156	149.099	122.043	1.00	38.56	H
ATOM	13242	CB	ASN	H	96	49.072	148.214	122.616	1.00	41.68	H
ATOM	13243	CG	ASN	H	96	49.507	147.542	123.877	1.00	45.05	H
ATOM	13244	OD1	ASN	H	96	49.817	146.350	123.871	1.00	54.73	H
ATOM	13245	ND2	ASN	H	96	49.562	148.298	124.973	1.00	43.85	H
ATOM	13246	C	ASN	H	96	50.041	150.454	122.692	1.00	39.39	H
ATOM	13247	O	ASN	H	96	49.222	150.661	123.578	1.00	42.87	H
ATOM	13248	N	SER	H	97	50.864	151.386	122.258	1.00	37.57	H
ATOM	13249	CA	SER	H	97	50.800	152.717	122.807	1.00	36.82	H
ATOM	13250	CB	SER	H	97	51.188	152.704	124.282	1.00	21.10	H
ATOM	13251	OG	SER	H	97	51.598	154.005	124.682	1.00	27.03	H
ATOM	13252	C	SER	H	97	51.716	153.634	122.016	1.00	40.00	H
ATOM	13253	O	SER	H	97	52.794	153.228	121.586	1.00	41.43	H
ATOM	13254	N	ARG	H	98	51.272	154.866	121.808	1.00	41.45	H
ATOM	13255	CA	ARG	H	98	52.071	155.816	121.073	1.00	42.62	H
ATOM	13256	CB	ARG	H	98	51.243	157.043	120.675	1.00	48.20	H
ATOM	13257	CG	ARG	H	98	50.170	156.779	119.620	1.00	54.52	H
ATOM	13258	CD	ARG	H	98	49.573	158.087	119.084	1.00	64.44	H
ATOM	13259	NE	ARG	H	98	48.617	157.860	117.997	1.00	71.30	H
ATOM	13260	CZ	ARG	H	98	47.402	157.334	118.156	1.00	75.70	H
ATOM	13261	NH1	ARG	H	98	46.973	156.974	119.363	1.00	74.63	H
ATOM	13262	NH2	ARG	H	98	46.614	157.160	117.102	1.00	77.11	H
ATOM	13263	C	ARG	H	98	53.194	156.218	121.996	1.00	43.74	H
ATOM	13264	O	ARG	H	98	54.162	156.849	121.575	1.00	46.81	H
ATOM	13265	N	THR	H	99	53.072	155.839	123.263	1.00	44.26	H
ATOM	13266	CA	THR	H	99	54.102	156.170	124.239	1.00	48.75	H
ATOM	13267	CB	THR	H	99	53.579	156.029	125.668	1.00	48.43	H
ATOM	13268	OG1	THR	H	99	52.331	156.716	125.791	1.00	48.88	H
ATOM	13269	CG2	THR	H	99	54.571	156.630	126.642	1.00	47.76	H
ATOM	13270	C	THR	H	99	55.316	155.252	124.090	1.00	50.72	H
ATOM	13271	O	THR	H	99	55.172	154.020	124.035	1.00	50.67	H
ATOM	13272	N	ASP	H	100	56.505	155.852	124.031	1.00	49.87	H
ATOM	13273	CA	ASP	H	100	57.736	155.077	123.893	1.00	51.13	H
ATOM	13274	CB	ASP	H	100	58.964	155.985	123.798	1.00	54.27	H
ATOM	13275	CG	ASP	H	100	59.162	156.567	122.418	1.00	57.89	H
ATOM	13276	OD1	ASP	H	100	58.832	155.886	121.414	1.00	56.33	H
ATOM	13277	OD2	ASP	H	100	59.675	157.703	122.352	1.00	54.17	H
ATOM	13278	C	ASP	H	100	57.961	154.120	125.052	1.00	50.30	H
ATOM	13279	O	ASP	H	100	58.208	154.538	126.179	1.00	48.72	H
ATOM	13280	N	LYS	H	101	57.875	152.833	124.753	1.00	51.59	H
ATOM	13281	CA	LYS	H	101	58.097	151.775	125.721	1.00	49.67	H
ATOM	13282	CB	LYS	H	101	57.045	150.681	125.543	1.00	54.61	H
ATOM	13283	CG	LYS	H	101	57.394	149.339	126.183	1.00	60.86	H
ATOM	13284	CD	LYS	H	101	56.290	148.322	125.951	1.00	60.64	H
ATOM	13285	CE	LYS	H	101	56.607	147.001	126.613	1.00	61.75	H
ATOM	13286	NZ	LYS	H	101	55.440	146.097	126.458	1.00	65.12	H
ATOM	13287	C	LYS	H	101	59.488	151.227	125.395	1.00	48.12	H
ATOM	13288	O	LYS	H	101	59.959	151.361	124.264	1.00	44.62	H
ATOM	13289	N	PRO	H	102	60.175	150.621	126.384	1.00	48.87	H
ATOM	13290	CD	PRO	H	102	59.937	150.679	127.834	1.00	47.17	H
ATOM	13291	CA	PRO	H	102	61.513	150.077	126.129	1.00	45.82	H

ATOM	13292	CB	PRO	H	102	62.094	149.892	127.537	1.00	42.91	H
ATOM	13293	CG	PRO	H	102	61.340	150.877	128.353	1.00	46.32	H
ATOM	13294	C	PRO	H	102	61.453	148.760	125.382	1.00	40.12	H
ATOM	13295	O	PRO	H	102	60.407	148.122	125.296	1.00	40.97	H
ATOM	13296	N	TRP	H	103	62.579	148.379	124.813	1.00	36.94	H
ATOM	13297	CA	TRP	H	103	62.682	147.109	124.115	1.00	38.88	H
ATOM	13298	CB	TRP	H	103	63.390	147.329	122.777	1.00	34.06	H
ATOM	13299	CG	TRP	H	103	63.488	146.114	121.940	1.00	31.24	H
ATOM	13300	CD2	TRP	H	103	64.644	145.663	121.230	1.00	27.81	H
ATOM	13301	CE2	TRP	H	103	64.285	144.476	120.560	1.00	22.07	H
ATOM	13302	CE3	TRP	H	103	65.951	146.147	121.096	1.00	25.48	H
ATOM	13303	CD1	TRP	H	103	62.499	145.210	121.680	1.00	30.26	H
ATOM	13304	NE1	TRP	H	103	62.969	144.221	120.850	1.00	26.22	H
ATOM	13305	CZ2	TRP	H	103	65.186	143.765	119.766	1.00	22.41	H
ATOM	13306	CZ3	TRP	H	103	66.842	145.438	120.305	1.00	27.45	H
ATOM	13307	CH2	TRP	H	103	66.454	144.259	119.651	1.00	21.86	H
ATOM	13308	C	TRP	H	103	63.537	146.334	125.138	1.00	37.65	H
ATOM	13309	O	TRP	H	103	64.762	146.503	125.215	1.00	38.14	H
ATOM	13310	N	PRO	H	104	62.877	145.504	125.962	1.00	36.07	H
ATOM	13311	CD	PRO	H	104	61.508	145.039	125.653	1.00	37.55	H
ATOM	13312	CA	PRO	H	104	63.458	144.684	127.027	1.00	33.38	H
ATOM	13313	CB	PRO	H	104	62.224	144.069	127.670	1.00	27.63	H
ATOM	13314	CG	PRO	H	104	61.375	143.770	126.484	1.00	28.65	H
ATOM	13315	C	PRO	H	104	64.463	143.639	126.547	1.00	32.74	H
ATOM	13316	O	PRO	H	104	64.139	142.451	126.421	1.00	34.02	H
ATOM	13317	N	VAL	H	105	65.678	144.100	126.283	1.00	28.55	H
ATOM	13318	CA	VAL	H	105	66.742	143.243	125.820	1.00	26.24	H
ATOM	13319	CB	VAL	H	105	67.075	143.469	124.329	1.00	25.00	H
ATOM	13320	CG1	VAL	H	105	68.099	142.444	123.872	1.00	23.37	H
ATOM	13321	CG2	VAL	H	105	65.850	143.351	123.490	1.00	21.59	H
ATOM	13322	C	VAL	H	105	67.972	143.589	126.621	1.00	29.49	H
ATOM	13323	O	VAL	H	105	68.297	144.775	126.811	1.00	25.11	H
ATOM	13324	N	ALA	H	106	68.645	142.551	127.108	1.00	32.56	H
ATOM	13325	CA	ALA	H	106	69.871	142.750	127.867	1.00	34.91	H
ATOM	13326	CB	ALA	H	106	69.584	142.863	129.336	1.00	36.83	H
ATOM	13327	C	ALA	H	106	70.801	141.589	127.605	1.00	35.98	H
ATOM	13328	O	ALA	H	106	70.375	140.438	127.500	1.00	36.84	H
ATOM	13329	N	LEU	H	107	72.075	141.924	127.468	1.00	36.72	H
ATOM	13330	CA	LEU	H	107	73.124	140.957	127.230	1.00	38.33	H
ATOM	13331	CB	LEU	H	107	74.150	141.535	126.254	1.00	39.10	H
ATOM	13332	CG	LEU	H	107	74.084	141.110	124.784	1.00	38.16	H
ATOM	13333	CD1	LEU	H	107	72.657	140.887	124.337	1.00	38.77	H
ATOM	13334	CD2	LEU	H	107	74.766	142.159	123.946	1.00	33.38	H
ATOM	13335	C	LEU	H	107	73.800	140.672	128.552	1.00	39.25	H
ATOM	13336	O	LEU	H	107	74.171	141.598	129.278	1.00	36.64	H
ATOM	13337	N	TYR	H	108	73.918	139.390	128.874	1.00	42.50	H
ATOM	13338	CA	TYR	H	108	74.594	138.952	130.091	1.00	44.17	H
ATOM	13339	CB	TYR	H	108	73.681	138.056	130.923	1.00	44.43	H
ATOM	13340	CG	TYR	H	108	72.702	138.855	131.730	1.00	50.33	H
ATOM	13341	CD1	TYR	H	108	71.424	139.119	131.248	1.00	58.63	H
ATOM	13342	CE1	TYR	H	108	70.537	139.929	131.959	1.00	63.58	H
ATOM	13343	CD2	TYR	H	108	73.077	139.417	132.947	1.00	53.88	H
ATOM	13344	CE2	TYR	H	108	72.205	140.230	133.670	1.00	60.17	H
ATOM	13345	CZ	TYR	H	108	70.933	140.485	133.171	1.00	63.89	H
ATOM	13346	OH	TYR	H	108	70.059	141.291	133.873	1.00	63.66	H
ATOM	13347	C	TYR	H	108	75.837	138.204	129.626	1.00	42.54	H
ATOM	13348	O	TYR	H	108	75.753	137.072	129.154	1.00	41.02	H
ATOM	13349	N	LEU	H	109	76.983	138.867	129.749	1.00	42.50	H

ATOM	13350	CA	LEU	H	109	78.241	138.307	129.281	1.00	47.10	H
ATOM	13351	CB	LEU	H	109	78.860	139.263	128.262	1.00	43.58	H
ATOM	13352	CG	LEU	H	109	77.895	139.771	127.185	1.00	43.14	H
ATOM	13353	CD1	LEU	H	109	78.618	140.743	126.258	1.00	41.56	H
ATOM	13354	CD2	LEU	H	109	77.334	138.609	126.407	1.00	27.60	H
ATOM	13355	C	LEU	H	109	79.266	138.009	130.364	1.00	47.18	H
ATOM	13356	O	LEU	H	109	79.597	138.888	131.158	1.00	44.92	H
ATOM	13357	N	THR	H	110	79.771	136.769	130.372	1.00	45.99	H
ATOM	13358	CA	THR	H	110	80.780	136.332	131.338	1.00	43.47	H
ATOM	13359	CB	THR	H	110	80.321	135.097	132.121	1.00	45.70	H
ATOM	13360	OG1	THR	H	110	79.057	135.367	132.732	1.00	54.14	H
ATOM	13361	CG2	THR	H	110	81.332	134.755	133.214	1.00	46.07	H
ATOM	13362	C	THR	H	110	82.086	135.982	130.643	1.00	39.24	H
ATOM	13363	O	THR	H	110	82.132	135.115	129.763	1.00	36.19	H
ATOM	13364	N	PRO	H	111	83.177	136.645	131.042	1.00	38.91	H
ATOM	13365	CD	PRO	H	111	83.271	137.691	132.068	1.00	40.28	H
ATOM	13366	CA	PRO	H	111	84.490	136.392	130.443	1.00	41.95	H
ATOM	13367	CB	PRO	H	111	85.409	137.377	131.168	1.00	40.45	H
ATOM	13368	CG	PRO	H	111	84.489	138.464	131.601	1.00	43.58	H
ATOM	13369	C	PRO	H	111	84.930	134.959	130.656	1.00	39.43	H
ATOM	13370	O	PRO	H	111	84.574	134.336	131.654	1.00	38.69	H
ATOM	13371	N	VAL	H	112	85.694	134.442	129.705	1.00	41.43	H
ATOM	13372	CA	VAL	H	112	86.210	133.083	129.799	1.00	46.02	H
ATOM	13373	CB	VAL	H	112	86.411	132.442	128.406	1.00	46.78	H
ATOM	13374	CG1	VAL	H	112	85.059	132.223	127.745	1.00	42.03	H
ATOM	13375	CG2	VAL	H	112	87.313	133.330	127.543	1.00	36.18	H
ATOM	13376	C	VAL	H	112	87.550	133.148	130.507	1.00	49.75	H
ATOM	13377	O	VAL	H	112	88.216	134.181	130.494	1.00	51.62	H
ATOM	13378	N	SER	H	113	87.937	132.047	131.137	1.00	53.85	H
ATOM	13379	CA	SER	H	113	89.204	131.998	131.861	1.00	55.53	H
ATOM	13380	CB	SER	H	113	89.479	130.572	132.345	1.00	55.06	H
ATOM	13381	OG	SER	H	113	89.645	129.699	131.243	1.00	53.80	H
ATOM	13382	C	SER	H	113	90.373	132.467	131.003	1.00	53.39	H
ATOM	13383	O	SER	H	113	91.352	133.013	131.511	1.00	53.69	H
ATOM	13384	N	SER	H	114	90.266	132.255	129.698	1.00	50.78	H
ATOM	13385	CA	SER	H	114	91.333	132.637	128.792	1.00	50.13	H
ATOM	13386	CB	SER	H	114	91.302	131.736	127.555	1.00	51.79	H
ATOM	13387	OG	SER	H	114	90.131	131.935	126.792	1.00	49.38	H
ATOM	13388	C	SER	H	114	91.299	134.103	128.374	1.00	49.30	H
ATOM	13389	O	SER	H	114	92.178	134.575	127.669	1.00	49.25	H
ATOM	13390	N	ALA	H	115	90.292	134.830	128.823	1.00	52.68	H
ATOM	13391	CA	ALA	H	115	90.175	136.238	128.476	1.00	56.53	H
ATOM	13392	CB	ALA	H	115	88.939	136.825	129.143	1.00	57.03	H
ATOM	13393	C	ALA	H	115	91.422	137.052	128.864	1.00	58.78	H
ATOM	13394	O	ALA	H	115	91.824	137.078	130.039	1.00	55.05	H
ATOM	13395	N	GLY	H	116	92.010	137.730	127.871	1.00	60.50	H
ATOM	13396	CA	GLY	H	116	93.203	138.537	128.096	1.00	60.34	H
ATOM	13397	C	GLY	H	116	93.100	139.616	129.167	1.00	58.08	H
ATOM	13398	O	GLY	H	116	92.817	139.350	130.341	1.00	57.70	H
ATOM	13399	N	GLY	H	117	93.381	140.843	128.757	1.00	54.48	H
ATOM	13400	CA	GLY	H	117	93.298	141.975	129.658	1.00	52.24	H
ATOM	13401	C	GLY	H	117	92.139	142.778	129.103	1.00	48.68	H
ATOM	13402	O	GLY	H	117	91.098	142.914	129.752	1.00	47.04	H
ATOM	13403	N	VAL	H	118	92.329	143.294	127.890	1.00	44.18	H
ATOM	13404	CA	VAL	H	118	91.299	144.042	127.185	1.00	40.22	H
ATOM	13405	CB	VAL	H	118	91.916	145.024	126.204	1.00	38.27	H
ATOM	13406	CG1	VAL	H	118	90.859	145.518	125.225	1.00	31.82	H
ATOM	13407	CG2	VAL	H	118	92.530	146.181	126.971	1.00	37.03	H

ATOM	13408	C	VAL	H	118	90.456	143.052	126.386	1.00	36.82	H
ATOM	13409	O	VAL	H	118	90.838	142.682	125.295	1.00	39.43	H
ATOM	13410	N	ALA	H	119	89.320	142.621	126.923	1.00	31.19	H
ATOM	13411	CA	ALA	H	119	88.475	141.670	126.213	1.00	29.16	H
ATOM	13412	CB	ALA	H	119	87.699	140.843	127.208	1.00	26.41	H
ATOM	13413	C	ALA	H	119	87.509	142.318	125.209	1.00	32.65	H
ATOM	13414	O	ALA	H	119	86.860	141.617	124.435	1.00	32.60	H
ATOM	13415	N	ILE	H	120	87.399	143.646	125.251	1.00	31.38	H
ATOM	13416	CA	ILE	H	120	86.543	144.401	124.346	1.00	32.21	H
ATOM	13417	CB	ILE	H	120	85.141	144.624	124.938	1.00	36.95	H
ATOM	13418	CG2	ILE	H	120	84.338	145.564	124.041	1.00	27.70	H
ATOM	13419	CG1	ILE	H	120	84.413	143.294	125.083	1.00	33.65	H
ATOM	13420	CD1	ILE	H	120	83.064	143.430	125.755	1.00	36.52	H
ATOM	13421	C	ILE	H	120	87.156	145.779	124.071	1.00	35.55	H
ATOM	13422	O	ILE	H	120	87.326	146.583	124.992	1.00	39.48	H
ATOM	13423	N	LYS	H	121	87.475	146.064	122.813	1.00	30.26	H
ATOM	13424	CA	LYS	H	121	88.068	147.352	122.485	1.00	32.70	H
ATOM	13425	CB	LYS	H	121	88.801	147.298	121.134	1.00	42.16	H
ATOM	13426	CG	LYS	H	121	90.244	146.799	121.149	1.00	47.03	H
ATOM	13427	CD	LYS	H	121	90.335	145.322	121.516	1.00	58.67	H
ATOM	13428	CE	LYS	H	121	91.691	144.759	121.142	1.00	62.52	H
ATOM	13429	NZ	LYS	H	121	91.956	144.949	119.676	1.00	67.59	H
ATOM	13430	C	LYS	H	121	87.100	148.532	122.447	1.00	33.27	H
ATOM	13431	O	LYS	H	121	85.947	148.439	122.010	1.00	33.30	H
ATOM	13432	N	ALA	H	122	87.603	149.659	122.916	1.00	33.30	H
ATOM	13433	CA	ALA	H	122	86.841	150.880	122.902	1.00	34.76	H
ATOM	13434	CB	ALA	H	122	87.666	152.013	123.523	1.00	22.80	H
ATOM	13435	C	ALA	H	122	86.553	151.167	121.419	1.00	36.10	H
ATOM	13436	O	ALA	H	122	87.460	151.124	120.584	1.00	36.57	H
ATOM	13437	N	GLY	H	123	85.290	151.435	121.105	1.00	35.64	H
ATOM	13438	CA	GLY	H	123	84.901	151.748	119.745	1.00	36.52	H
ATOM	13439	C	GLY	H	123	84.558	150.564	118.860	1.00	38.07	H
ATOM	13440	O	GLY	H	123	84.210	150.743	117.691	1.00	41.45	H
ATOM	13441	N	SER	H	124	84.622	149.356	119.402	1.00	35.63	H
ATOM	13442	CA	SER	H	124	84.349	148.180	118.593	1.00	33.70	H
ATOM	13443	CB	SER	H	124	85.204	147.006	119.089	1.00	33.02	H
ATOM	13444	OG	SER	H	124	85.019	146.731	120.464	1.00	25.27	H
ATOM	13445	C	SER	H	124	82.896	147.732	118.473	1.00	34.74	H
ATOM	13446	O	SER	H	124	82.057	148.002	119.335	1.00	35.32	H
ATOM	13447	N	LEU	H	125	82.604	147.038	117.382	1.00	34.82	H
ATOM	13448	CA	LEU	H	125	81.264	146.528	117.172	1.00	32.05	H
ATOM	13449	CB	LEU	H	125	81.055	146.010	115.741	1.00	28.53	H
ATOM	13450	CG	LEU	H	125	79.728	145.255	115.564	1.00	27.42	H
ATOM	13451	CD1	LEU	H	125	78.571	146.201	115.816	1.00	19.97	H
ATOM	13452	CD2	LEU	H	125	79.633	144.663	114.182	1.00	23.31	H
ATOM	13453	C	LEU	H	125	81.218	145.382	118.124	1.00	29.65	H
ATOM	13454	O	LEU	H	125	81.957	144.415	117.990	1.00	36.77	H
ATOM	13455	N	ILE	H	126	80.343	145.492	119.091	1.00	30.22	H
ATOM	13456	CA	ILE	H	126	80.206	144.464	120.099	1.00	32.54	H
ATOM	13457	CB	ILE	H	126	80.029	145.148	121.467	1.00	35.47	H
ATOM	13458	CG2	ILE	H	126	78.714	144.774	122.130	1.00	22.20	H
ATOM	13459	CG1	ILE	H	126	81.256	144.872	122.297	1.00	30.08	H
ATOM	13460	CD1	ILE	H	126	81.228	145.620	123.577	1.00	52.55	H
ATOM	13461	C	ILE	H	126	79.073	143.504	119.793	1.00	33.33	H
ATOM	13462	O	ILE	H	126	79.170	142.330	120.108	1.00	32.63	H
ATOM	13463	N	ALA	H	127	78.007	144.002	119.165	1.00	34.64	H
ATOM	13464	CA	ALA	H	127	76.862	143.153	118.827	1.00	32.76	H
ATOM	13465	CB	ALA	H	127	76.092	142.810	120.089	1.00	29.12	H

ATOM	13466	C	ALA	H	127	75.903	143.775	117.818	1.00	30.33	H
ATOM	13467	O	ALA	H	127	75.854	144.999	117.661	1.00	33.50	H
ATOM	13468	N	VAL	H	128	75.160	142.922	117.121	1.00	20.63	H
ATOM	13469	CA	VAL	H	128	74.159	143.388	116.187	1.00	23.09	H
ATOM	13470	CB	VAL	H	128	74.495	143.020	114.729	1.00	20.39	H
ATOM	13471	CG1	VAL	H	128	73.288	143.333	113.827	1.00	19.05	H
ATOM	13472	CG2	VAL	H	128	75.684	143.826	114.247	1.00	20.75	H
ATOM	13473	C	VAL	H	128	72.839	142.724	116.597	1.00	26.42	H
ATOM	13474	O	VAL	H	128	72.751	141.500	116.635	1.00	29.85	H
ATOM	13475	N	LEU	H	129	71.825	143.525	116.916	1.00	26.23	H
ATOM	13476	CA	LEU	H	129	70.534	142.980	117.329	1.00	30.88	H
ATOM	13477	CB	LEU	H	129	70.152	143.499	118.710	1.00	31.64	H
ATOM	13478	CG	LEU	H	129	71.128	143.174	119.835	1.00	35.93	H
ATOM	13479	CD1	LEU	H	129	70.600	143.761	121.111	1.00	32.08	H
ATOM	13480	CD2	LEU	H	129	71.298	141.667	119.976	1.00	35.88	H
ATOM	13481	C	LEU	H	129	69.421	143.323	116.347	1.00	33.29	H
ATOM	13482	O	LEU	H	129	69.189	144.494	116.024	1.00	34.47	H
ATOM	13483	N	ILE	H	130	68.724	142.292	115.880	1.00	29.73	H
ATOM	13484	CA	ILE	H	130	67.650	142.493	114.932	1.00	28.85	H
ATOM	13485	CB	ILE	H	130	67.739	141.508	113.744	1.00	28.28	H
ATOM	13486	CG2	ILE	H	130	66.554	141.709	112.815	1.00	20.92	H
ATOM	13487	CG1	ILE	H	130	69.029	141.767	112.960	1.00	25.55	H
ATOM	13488	CD1	ILE	H	130	69.248	140.785	111.831	1.00	32.63	H
ATOM	13489	C	ILE	H	130	66.276	142.388	115.558	1.00	30.99	H
ATOM	13490	O	ILE	H	130	65.858	141.333	116.051	1.00	30.68	H
ATOM	13491	N	LEU	H	131	65.587	143.519	115.523	1.00	34.86	H
ATOM	13492	CA	LEU	H	131	64.243	143.655	116.043	1.00	33.15	H
ATOM	13493	CB	LEU	H	131	64.075	145.049	116.628	1.00	31.71	H
ATOM	13494	CG	LEU	H	131	62.719	145.344	117.255	1.00	37.19	H
ATOM	13495	CD1	LEU	H	131	62.856	146.557	118.162	1.00	36.68	H
ATOM	13496	CD2	LEU	H	131	61.671	145.569	116.169	1.00	33.22	H
ATOM	13497	C	LEU	H	131	63.293	143.452	114.874	1.00	32.26	H
ATOM	13498	O	LEU	H	131	63.383	144.152	113.877	1.00	32.49	H
ATOM	13499	N	ARG	H	132	62.391	142.486	115.003	1.00	34.97	H
ATOM	13500	CA	ARG	H	132	61.414	142.180	113.959	1.00	34.78	H
ATOM	13501	CB	ARG	H	132	61.477	140.703	113.607	1.00	33.64	H
ATOM	13502	CG	ARG	H	132	60.501	140.276	112.565	1.00	29.83	H
ATOM	13503	CD	ARG	H	132	60.829	138.877	112.166	1.00	34.42	H
ATOM	13504	NE	ARG	H	132	60.287	138.530	110.860	1.00	50.15	H
ATOM	13505	CZ	ARG	H	132	60.577	137.405	110.215	1.00	56.57	H
ATOM	13506	NH1	ARG	H	132	61.408	136.521	110.764	1.00	59.95	H
ATOM	13507	NH2	ARG	H	132	60.040	137.159	109.023	1.00	56.38	H
ATOM	13508	C	ARG	H	132	60.008	142.533	114.424	1.00	35.29	H
ATOM	13509	O	ARG	H	132	59.518	141.994	115.418	1.00	35.22	H
ATOM	13510	N	GLN	H	133	59.363	143.429	113.683	1.00	35.90	H
ATOM	13511	CA	GLN	H	133	58.028	143.906	114.018	1.00	33.13	H
ATOM	13512	CB	GLN	H	133	58.082	145.406	114.280	1.00	30.72	H
ATOM	13513	CG	GLN	H	133	56.732	146.071	114.482	1.00	39.19	H
ATOM	13514	CD	GLN	H	133	56.156	146.680	113.214	1.00	35.92	H
ATOM	13515	OE1	GLN	H	133	56.793	147.493	112.549	1.00	38.89	H
ATOM	13516	NE2	GLN	H	133	54.938	146.296	112.887	1.00	35.86	H
ATOM	13517	C	GLN	H	133	56.981	143.622	112.960	1.00	34.71	H
ATOM	13518	O	GLN	H	133	57.155	143.943	111.781	1.00	34.71	H
ATOM	13519	N	THR	H	134	55.892	143.008	113.406	1.00	34.63	H
ATOM	13520	CA	THR	H	134	54.744	142.680	112.563	1.00	33.17	H
ATOM	13521	CB	THR	H	134	54.567	141.180	112.441	1.00	27.79	H
ATOM	13522	OG1	THR	H	134	54.734	140.606	113.739	1.00	40.55	H
ATOM	13523	CG2	THR	H	134	55.571	140.590	111.483	1.00	18.12	H

ATOM	13524	C	THR	H	134	53.501	143.248	113.270	1.00	36.98	H
ATOM	13525	O	THR	H	134	53.613	144.068	114.195	1.00	34.91	H
ATOM	13526	N	ASN	H	135	52.315	142.819	112.851	1.00	38.64	H
ATOM	13527	CA	ASN	H	135	51.107	143.328	113.484	1.00	42.60	H
ATOM	13528	CB	ASN	H	135	50.835	144.759	113.031	1.00	40.32	H
ATOM	13529	CG	ASN	H	135	50.746	144.872	111.533	1.00	41.98	H
ATOM	13530	OD1	ASN	H	135	50.193	143.996	110.869	1.00	39.98	H
ATOM	13531	ND2	ASN	H	135	51.285	145.955	110.986	1.00	40.53	H
ATOM	13532	C	ASN	H	135	49.903	142.479	113.168	1.00	44.42	H
ATOM	13533	O	ASN	H	135	49.968	141.570	112.332	1.00	47.44	H
ATOM	13534	N	ASN	H	136	48.801	142.781	113.844	1.00	43.82	H
ATOM	13535	CA	ASN	H	136	47.555	142.058	113.619	1.00	48.31	H
ATOM	13536	CB	ASN	H	136	46.791	141.906	114.921	1.00	51.08	H
ATOM	13537	CG	ASN	H	136	46.479	143.240	115.565	1.00	55.77	H
ATOM	13538	OD1	ASN	H	136	45.931	143.297	116.667	1.00	60.17	H
ATOM	13539	ND2	ASN	H	136	46.830	144.322	114.885	1.00	56.07	H
ATOM	13540	C	ASN	H	136	46.703	142.847	112.650	1.00	50.28	H
ATOM	13541	O	ASN	H	136	45.484	142.870	112.776	1.00	49.92	H
ATOM	13542	N	TYR	H	137	47.351	143.511	111.696	1.00	54.16	H
ATOM	13543	CA	TYR	H	137	46.628	144.316	110.725	1.00	54.77	H
ATOM	13544	CB	TYR	H	137	46.910	145.803	110.930	1.00	61.23	H
ATOM	13545	CG	TYR	H	137	46.111	146.672	109.986	1.00	72.96	H
ATOM	13546	CD1	TYR	H	137	44.719	146.579	109.930	1.00	72.47	H
ATOM	13547	CE1	TYR	H	137	43.980	147.362	109.045	1.00	78.01	H
ATOM	13548	CD2	TYR	H	137	46.746	147.576	109.130	1.00	77.91	H
ATOM	13549	CE2	TYR	H	137	46.013	148.365	108.241	1.00	78.80	H
ATOM	13550	CZ	TYR	H	137	44.635	148.251	108.207	1.00	78.73	H
ATOM	13551	OH	TYR	H	137	43.915	149.023	107.333	1.00	81.52	H
ATOM	13552	C	TYR	H	137	46.900	143.954	109.281	1.00	52.48	H
ATOM	13553	O	TYR	H	137	45.980	143.935	108.476	1.00	55.50	H
ATOM	13554	N	ASN	H	138	48.149	143.668	108.942	1.00	50.32	H
ATOM	13555	CA	ASN	H	138	48.473	143.306	107.565	1.00	51.13	H
ATOM	13556	CB	ASN	H	138	48.584	144.557	106.707	1.00	52.49	H
ATOM	13557	CG	ASN	H	138	49.617	145.519	107.219	1.00	50.69	H
ATOM	13558	OD1	ASN	H	138	49.764	146.602	106.681	1.00	52.52	H
ATOM	13559	ND2	ASN	H	138	50.346	145.130	108.257	1.00	52.67	H
ATOM	13560	C	ASN	H	138	49.751	142.499	107.441	1.00	51.74	H
ATOM	13561	O	ASN	H	138	50.235	141.953	108.427	1.00	54.40	H
ATOM	13562	N	SER	H	139	50.306	142.431	106.235	1.00	51.38	H
ATOM	13563	CA	SER	H	139	51.531	141.659	106.022	1.00	51.23	H
ATOM	13564	CB	SER	H	139	51.573	141.120	104.582	1.00	51.48	H
ATOM	13565	OG	SER	H	139	51.617	142.171	103.631	1.00	58.93	H
ATOM	13566	C	SER	H	139	52.842	142.397	106.333	1.00	46.15	H
ATOM	13567	O	SER	H	139	53.905	142.004	105.849	1.00	44.97	H
ATOM	13568	N	ASP	H	140	52.766	143.455	107.138	1.00	44.69	H
ATOM	13569	CA	ASP	H	140	53.958	144.219	107.513	1.00	45.99	H
ATOM	13570	CB	ASP	H	140	53.571	145.490	108.301	1.00	42.90	H
ATOM	13571	CG	ASP	H	140	53.131	146.635	107.390	1.00	43.37	H
ATOM	13572	OD1	ASP	H	140	52.711	147.698	107.902	1.00	36.82	H
ATOM	13573	OD2	ASP	H	140	53.207	146.474	106.151	1.00	42.48	H
ATOM	13574	C	ASP	H	140	54.950	143.377	108.334	1.00	47.36	H
ATOM	13575	O	ASP	H	140	54.628	142.873	109.413	1.00	46.43	H
ATOM	13576	N	ASP	H	141	56.159	143.230	107.804	1.00	48.06	H
ATOM	13577	CA	ASP	H	141	57.218	142.474	108.464	1.00	45.50	H
ATOM	13578	CB	ASP	H	141	57.359	141.106	107.807	1.00	48.54	H
ATOM	13579	CG	ASP	H	141	58.174	140.134	108.641	1.00	56.22	H
ATOM	13580	OD1	ASP	H	141	58.973	140.574	109.494	1.00	55.84	H
ATOM	13581	OD2	ASP	H	141	58.024	138.915	108.426	1.00	62.76	H

ATOM	13582	C	ASP	H	141	58.506	143.285	108.261	1.00	42.62	H
ATOM	13583	O	ASP	H	141	59.230	143.076	107.287	1.00	40.24	H
ATOM	13584	N	PHE	H	142	58.785	144.204	109.181	1.00	36.42	H
ATOM	13585	CA	PHE	H	142	59.952	145.073	109.075	1.00	35.40	H
ATOM	13586	CB	PHE	H	142	59.538	146.537	109.291	1.00	35.85	H
ATOM	13587	CG	PHE	H	142	58.481	147.019	108.342	1.00	37.39	H
ATOM	13588	CD1	PHE	H	142	57.337	147.658	108.821	1.00	42.94	H
ATOM	13589	CD2	PHE	H	142	58.641	146.875	106.965	1.00	32.67	H
ATOM	13590	CE1	PHE	H	142	56.366	148.156	107.937	1.00	35.89	H
ATOM	13591	CE2	PHE	H	142	57.693	147.361	106.082	1.00	29.59	H
ATOM	13592	CZ	PHE	H	142	56.547	148.007	106.571	1.00	35.57	H
ATOM	13593	C	PHE	H	142	61.039	144.723	110.074	1.00	37.06	H
ATOM	13594	O	PHE	H	142	60.770	144.187	111.156	1.00	37.21	H
ATOM	13595	N	GLN	H	143	62.276	145.046	109.713	1.00	34.38	H
ATOM	13596	CA	GLN	H	143	63.405	144.761	110.581	1.00	29.19	H
ATOM	13597	CB	GLN	H	143	64.400	143.854	109.882	1.00	25.60	H
ATOM	13598	CG	GLN	H	143	63.929	142.459	109.609	1.00	33.75	H
ATOM	13599	CD	GLN	H	143	65.092	141.563	109.288	1.00	44.15	H
ATOM	13600	OE1	GLN	H	143	66.002	141.963	108.560	1.00	41.92	H
ATOM	13601	NE2	GLN	H	143	65.081	140.343	109.831	1.00	48.55	H
ATOM	13602	C	GLN	H	143	64.123	146.019	111.010	1.00	31.32	H
ATOM	13603	O	GLN	H	143	64.448	146.878	110.187	1.00	32.37	H
ATOM	13604	N	PHE	H	144	64.362	146.121	112.312	1.00	32.50	H
ATOM	13605	CA	PHE	H	144	65.051	147.261	112.886	1.00	30.29	H
ATOM	13606	CB	PHE	H	144	64.231	147.868	114.025	1.00	27.92	H
ATOM	13607	CG	PHE	H	144	62.976	148.548	113.561	1.00	30.30	H
ATOM	13608	CD1	PHE	H	144	61.926	147.818	113.010	1.00	30.11	H
ATOM	13609	CD2	PHE	H	144	62.840	149.935	113.671	1.00	32.76	H
ATOM	13610	CE1	PHE	H	144	60.752	148.463	112.579	1.00	25.41	H
ATOM	13611	CE2	PHE	H	144	61.677	150.582	113.245	1.00	25.94	H
ATOM	13612	CZ	PHE	H	144	60.632	149.838	112.700	1.00	19.10	H
ATOM	13613	C	PHE	H	144	66.365	146.712	113.384	1.00	30.86	H
ATOM	13614	O	PHE	H	144	66.407	145.951	114.359	1.00	31.93	H
ATOM	13615	N	VAL	H	145	67.440	147.100	112.707	1.00	26.81	H
ATOM	13616	CA	VAL	H	145	68.758	146.610	113.051	1.00	25.94	H
ATOM	13617	CB	VAL	H	145	69.574	146.346	111.778	1.00	24.28	H
ATOM	13618	CG1	VAL	H	145	70.926	145.823	112.143	1.00	19.33	H
ATOM	13619	CG2	VAL	H	145	68.842	145.341	110.890	1.00	26.72	H
ATOM	13620	C	VAL	H	145	69.539	147.531	113.957	1.00	28.07	H
ATOM	13621	O	VAL	H	145	69.779	148.687	113.625	1.00	33.38	H
ATOM	13622	N	TRP	H	146	69.950	147.011	115.108	1.00	29.54	H
ATOM	13623	CA	TRP	H	146	70.719	147.808	116.058	1.00	27.24	H
ATOM	13624	CB	TRP	H	146	70.082	147.717	117.446	1.00	22.01	H
ATOM	13625	CG	TRP	H	146	68.598	147.964	117.406	1.00	27.12	H
ATOM	13626	CD2	TRP	H	146	67.936	149.235	117.378	1.00	19.92	H
ATOM	13627	CE2	TRP	H	146	66.552	148.982	117.247	1.00	20.12	H
ATOM	13628	CE3	TRP	H	146	68.377	150.565	117.443	1.00	20.29	H
ATOM	13629	CD1	TRP	H	146	67.613	147.020	117.297	1.00	25.51	H
ATOM	13630	NE1	TRP	H	146	66.383	147.623	117.197	1.00	24.65	H
ATOM	13631	CZ2	TRP	H	146	65.605	150.007	117.189	1.00	20.14	H
ATOM	13632	CZ3	TRP	H	146	67.424	151.596	117.380	1.00	20.20	H
ATOM	13633	CH2	TRP	H	146	66.059	151.305	117.256	1.00	15.60	H
ATOM	13634	C	TRP	H	146	72.175	147.341	116.100	1.00	28.14	H
ATOM	13635	O	TRP	H	146	72.459	146.172	116.347	1.00	29.96	H
ATOM	13636	N	ASN	H	147	73.094	148.258	115.817	1.00	26.28	H
ATOM	13637	CA	ASN	H	147	74.519	147.950	115.840	1.00	25.79	H
ATOM	13638	CB	ASN	H	147	75.237	148.574	114.623	1.00	24.60	H
ATOM	13639	CG	ASN	H	147	74.643	148.116	113.292	1.00	27.21	H

ATOM	13640	OD1	ASN	H	147	74.439	146.922	113.055	1.00	22.98	H
ATOM	13641	ND2	ASN	H	147	74.363	149.066	112.422	1.00	34.77	H
ATOM	13642	C	ASN	H	147	75.076	148.496	117.148	1.00	25.75	H
ATOM	13643	O	ASN	H	147	75.203	149.703	117.329	1.00	27.79	H
ATOM	13644	N	ILE	H	148	75.391	147.590	118.066	1.00	24.46	H
ATOM	13645	CA	ILE	H	148	75.902	147.968	119.383	1.00	22.53	H
ATOM	13646	CB	ILE	H	148	75.531	146.900	120.426	1.00	24.23	H
ATOM	13647	CG2	ILE	H	148	75.551	147.513	121.815	1.00	23.41	H
ATOM	13648	CG1	ILE	H	148	74.176	146.254	120.077	1.00	25.25	H
ATOM	13649	CD1	ILE	H	148	72.967	147.164	120.095	1.00	12.19	H
ATOM	13650	C	ILE	H	148	77.414	148.155	119.461	1.00	19.97	H
ATOM	13651	O	ILE	H	148	78.160	147.203	119.352	1.00	25.83	H
ATOM	13652	N	TYR	H	149	77.866	149.378	119.658	1.00	19.64	H
ATOM	13653	CA	TYR	H	149	79.291	149.644	119.779	1.00	25.61	H
ATOM	13654	CB	TYR	H	149	79.695	150.854	118.927	1.00	20.25	H
ATOM	13655	CG	TYR	H	149	79.736	150.584	117.445	1.00	27.61	H
ATOM	13656	CD1	TYR	H	149	78.555	150.529	116.686	1.00	29.34	H
ATOM	13657	CE1	TYR	H	149	78.588	150.260	115.321	1.00	27.14	H
ATOM	13658	CD2	TYR	H	149	80.955	150.364	116.790	1.00	26.99	H
ATOM	13659	CE2	TYR	H	149	80.998	150.094	115.423	1.00	25.15	H
ATOM	13660	CZ	TYR	H	149	79.813	150.043	114.696	1.00	29.84	H
ATOM	13661	OH	TYR	H	149	79.860	149.774	113.349	1.00	33.63	H
ATOM	13662	C	TYR	H	149	79.655	149.931	121.242	1.00	30.55	H
ATOM	13663	O	TYR	H	149	78.855	150.512	121.974	1.00	34.88	H
ATOM	13664	N	ALA	H	150	80.849	149.521	121.671	1.00	31.33	H
ATOM	13665	CA	ALA	H	150	81.292	149.796	123.038	1.00	31.42	H
ATOM	13666	CB	ALA	H	150	82.079	148.662	123.565	1.00	27.13	H
ATOM	13667	C	ALA	H	150	82.150	151.054	123.011	1.00	33.48	H
ATOM	13668	O	ALA	H	150	83.051	151.170	122.193	1.00	36.59	H
ATOM	13669	N	ASN	H	151	81.871	151.993	123.907	1.00	32.54	H
ATOM	13670	CA	ASN	H	151	82.607	153.247	123.931	1.00	32.80	H
ATOM	13671	CB	ASN	H	151	81.807	154.326	124.654	1.00	38.01	H
ATOM	13672	CG	ASN	H	151	80.669	154.865	123.831	1.00	39.01	H
ATOM	13673	OD1	ASN	H	151	80.870	155.344	122.716	1.00	41.93	H
ATOM	13674	ND2	ASN	H	151	79.462	154.800	124.380	1.00	38.77	H
ATOM	13675	C	ASN	H	151	83.942	153.146	124.606	1.00	33.50	H
ATOM	13676	O	ASN	H	151	84.810	153.990	124.403	1.00	39.18	H
ATOM	13677	N	ASN	H	152	84.114	152.107	125.408	1.00	32.59	H
ATOM	13678	CA	ASN	H	152	85.341	151.945	126.170	1.00	31.27	H
ATOM	13679	CB	ASN	H	152	85.100	152.437	127.582	1.00	30.23	H
ATOM	13680	CG	ASN	H	152	84.082	151.587	128.315	1.00	33.53	H
ATOM	13681	OD1	ASN	H	152	82.877	151.678	128.072	1.00	43.50	H
ATOM	13682	ND2	ASN	H	152	84.564	150.739	129.206	1.00	35.09	H
ATOM	13683	C	ASN	H	152	85.826	150.508	126.255	1.00	31.81	H
ATOM	13684	O	ASN	H	152	85.085	149.575	125.932	1.00	24.58	H
ATOM	13685	N	ASP	H	153	87.070	150.343	126.721	1.00	33.64	H
ATOM	13686	CA	ASP	H	153	87.642	149.010	126.881	1.00	33.97	H
ATOM	13687	CB	ASP	H	153	89.156	149.036	127.148	1.00	33.11	H
ATOM	13688	CG	ASP	H	153	89.977	149.630	126.012	1.00	40.10	H
ATOM	13689	OD1	ASP	H	153	89.555	149.623	124.828	1.00	40.07	H
ATOM	13690	OD2	ASP	H	153	91.094	150.084	126.331	1.00	30.75	H
ATOM	13691	C	ASP	H	153	87.031	148.343	128.098	1.00	33.79	H
ATOM	13692	O	ASP	H	153	86.785	148.993	129.106	1.00	36.10	H
ATOM	13693	N	VAL	H	154	86.774	147.050	127.988	1.00	33.64	H
ATOM	13694	CA	VAL	H	154	86.299	146.265	129.111	1.00	32.37	H
ATOM	13695	CB	VAL	H	154	85.068	145.456	128.766	1.00	33.23	H
ATOM	13696	CG1	VAL	H	154	84.729	144.519	129.924	1.00	28.09	H
ATOM	13697	CG2	VAL	H	154	83.924	146.375	128.479	1.00	41.22	H

ATOM	13698	C	VAL	H	154	87.448	145.282	129.430	1.00	35.45	H
ATOM	13699	O	VAL	H	154	87.673	144.290	128.717	1.00	33.09	H
ATOM	13700	N	VAL	H	155	88.187	145.581	130.490	1.00	36.65	H
ATOM	13701	CA	VAL	H	155	89.307	144.748	130.925	1.00	38.03	H
ATOM	13702	CB	VAL	H	155	90.398	145.585	131.675	1.00	38.48	H
ATOM	13703	CG1	VAL	H	155	91.318	144.667	132.442	1.00	37.00	H
ATOM	13704	CG2	VAL	H	155	91.215	146.401	130.685	1.00	41.21	H
ATOM	13705	C	VAL	H	155	88.880	143.627	131.859	1.00	35.78	H
ATOM	13706	O	VAL	H	155	88.057	143.825	132.757	1.00	36.24	H
ATOM	13707	N	VAL	H	156	89.449	142.450	131.633	1.00	35.38	H
ATOM	13708	CA	VAL	H	156	89.199	141.288	132.480	1.00	39.05	H
ATOM	13709	CB	VAL	H	156	88.797	140.065	131.662	1.00	41.07	H
ATOM	13710	CG1	VAL	H	156	88.916	138.817	132.528	1.00	35.41	H
ATOM	13711	CG2	VAL	H	156	87.377	140.245	131.120	1.00	40.74	H
ATOM	13712	C	VAL	H	156	90.539	140.993	133.138	1.00	39.57	H
ATOM	13713	O	VAL	H	156	91.443	140.474	132.488	1.00	41.67	H
ATOM	13714	N	PRO	H	157	90.686	141.313	134.435	1.00	39.66	H
ATOM	13715	CD	PRO	H	157	89.627	141.771	135.346	1.00	38.88	H
ATOM	13716	CA	PRO	H	157	91.937	141.088	135.175	1.00	37.15	H
ATOM	13717	CB	PRO	H	157	91.563	141.448	136.605	1.00	35.98	H
ATOM	13718	CG	PRO	H	157	90.432	142.427	136.423	1.00	40.01	H
ATOM	13719	C	PRO	H	157	92.477	139.669	135.067	1.00	35.30	H
ATOM	13720	O	PRO	H	157	91.713	138.689	135.030	1.00	33.46	H
ATOM	13721	N	THR	H	158	93.798	139.562	134.983	1.00	33.64	H
ATOM	13722	CA	THR	H	158	94.419	138.253	134.913	1.00	38.24	H
ATOM	13723	CB	THR	H	158	95.867	138.345	134.476	1.00	42.56	H
ATOM	13724	OG1	THR	H	158	96.482	137.064	134.651	1.00	48.17	H
ATOM	13725	CG2	THR	H	158	96.605	139.358	135.303	1.00	44.68	H
ATOM	13726	C	THR	H	158	94.369	137.585	136.296	1.00	38.98	H
ATOM	13727	O	THR	H	158	94.648	138.230	137.316	1.00	37.54	H
ATOM	13728	N	GLY	H	159	94.002	136.300	136.323	1.00	37.45	H
ATOM	13729	CA	GLY	H	159	93.908	135.574	137.579	1.00	37.49	H
ATOM	13730	C	GLY	H	159	95.193	134.898	138.043	1.00	40.20	H
ATOM	13731	O	GLY	H	159	96.248	135.011	137.398	1.00	38.49	H
ATOM	13732	N	GLY	H	160	95.123	134.212	139.181	1.00	36.31	H
ATOM	13733	CA	GLY	H	160	96.309	133.545	139.674	1.00	37.14	H
ATOM	13734	C	GLY	H	160	96.359	132.184	139.027	1.00	37.56	H
ATOM	13735	O	GLY	H	160	95.356	131.750	138.466	1.00	35.72	H
ATOM	13736	N	CYS	H	161	97.500	131.503	139.101	1.00	38.26	H
ATOM	13737	CA	CYS	H	161	97.618	130.178	138.500	1.00	41.11	H
ATOM	13738	C	CYS	H	161	97.157	129.046	139.426	1.00	42.43	H
ATOM	13739	O	CYS	H	161	96.857	129.278	140.600	1.00	43.46	H
ATOM	13740	CB	CYS	H	161	99.047	129.955	138.080	1.00	41.06	H
ATOM	13741	SG	CYS	H	161	99.695	131.342	137.118	1.00	46.08	H
ATOM	13742	N	ASP	H	162	97.064	127.826	138.898	1.00	42.28	H
ATOM	13743	CA	ASP	H	162	96.637	126.712	139.732	1.00	47.22	H
ATOM	13744	CB	ASP	H	162	95.470	125.949	139.110	1.00	52.77	H
ATOM	13745	CG	ASP	H	162	94.826	124.973	140.095	1.00	66.67	H
ATOM	13746	OD1	ASP	H	162	94.521	125.385	141.239	1.00	69.11	H
ATOM	13747	OD2	ASP	H	162	94.618	123.794	139.732	1.00	73.16	H
ATOM	13748	C	ASP	H	162	97.802	125.777	139.959	1.00	50.00	H
ATOM	13749	O	ASP	H	162	98.494	125.378	139.023	1.00	51.75	H
ATOM	13750	N	VAL	H	163	98.027	125.446	141.221	1.00	51.30	H
ATOM	13751	CA	VAL	H	163	99.125	124.584	141.585	1.00	56.20	H
ATOM	13752	CB	VAL	H	163	99.840	125.130	142.824	1.00	55.31	H
ATOM	13753	CG1	VAL	H	163	100.954	124.201	143.242	1.00	54.76	H
ATOM	13754	CG2	VAL	H	163	100.396	126.523	142.514	1.00	53.86	H
ATOM	13755	C	VAL	H	163	98.614	123.184	141.824	1.00	63.02	H

ATOM	13756	O	VAL	H	163	98.330	122.785	142.943	1.00	64.49	H
ATOM	13757	N	SER	H	164	98.499	122.450	140.729	1.00	73.74	H
ATOM	13758	CA	SER	H	164	98.024	121.078	140.732	1.00	81.82	H
ATOM	13759	CB	SER	H	164	97.946	120.565	139.287	1.00	83.24	H
ATOM	13760	OG	SER	H	164	97.482	121.577	138.404	1.00	80.42	H
ATOM	13761	C	SER	H	164	98.969	120.195	141.543	1.00	87.67	H
ATOM	13762	O	SER	H	164	100.108	119.940	141.126	1.00	89.89	H
ATOM	13763	N	ALA	H	165	98.491	119.737	142.700	1.00	90.75	H
ATOM	13764	CA	ALA	H	165	99.271	118.867	143.580	1.00	94.76	H
ATOM	13765	CB	ALA	H	165	99.749	119.648	144.799	1.00	93.45	H
ATOM	13766	C	ALA	H	165	98.415	117.676	144.018	1.00	97.91	H
ATOM	13767	O	ALA	H	165	97.260	117.852	144.420	1.00	101.56	H
ATOM	13768	N	ARG	H	166	98.974	116.471	143.941	1.00	97.80	H
ATOM	13769	CA	ARG	H	166	98.235	115.275	144.326	1.00	98.71	H
ATOM	13770	CB	ARG	H	166	99.085	114.040	144.049	1.00	96.30	H
ATOM	13771	CG	ARG	H	166	99.474	113.948	142.579	1.00	92.16	H
ATOM	13772	CD	ARG	H	166	100.223	112.671	142.237	1.00	92.41	H
ATOM	13773	NE	ARG	H	166	100.618	112.653	140.827	1.00	93.15	H
ATOM	13774	CZ	ARG	H	166	101.427	111.750	140.277	1.00	92.21	H
ATOM	13775	NH1	ARG	H	166	101.940	110.772	141.016	1.00	88.06	H
ATOM	13776	NH2	ARG	H	166	101.733	111.833	138.986	1.00	90.68	H
ATOM	13777	C	ARG	H	166	97.765	115.332	145.787	1.00	101.79	H
ATOM	13778	O	ARG	H	166	96.555	115.390	146.028	1.00	104.81	H
ATOM	13779	N	ASP	H	167	98.698	115.322	146.747	1.00	101.27	H
ATOM	13780	CA	ASP	H	167	98.360	115.418	148.183	1.00	100.78	H
ATOM	13781	CB	ASP	H	167	97.254	114.428	148.574	1.00	104.39	H
ATOM	13782	CG	ASP	H	167	96.763	114.631	150.014	1.00	108.31	H
ATOM	13783	OD1	ASP	H	167	96.051	113.742	150.533	1.00	111.44	H
ATOM	13784	OD2	ASP	H	167	97.088	115.677	150.626	1.00	107.31	H
ATOM	13785	C	ASP	H	167	99.548	115.202	149.122	1.00	99.30	H
ATOM	13786	O	ASP	H	167	100.697	115.435	148.749	1.00	101.60	H
ATOM	13787	N	VAL	H	168	99.242	114.765	150.344	1.00	94.10	H
ATOM	13788	CA	VAL	H	168	100.222	114.491	151.392	1.00	89.10	H
ATOM	13789	CB	VAL	H	168	99.504	114.193	152.729	1.00	89.08	H
ATOM	13790	CG1	VAL	H	168	98.401	113.176	152.504	1.00	90.85	H
ATOM	13791	CG2	VAL	H	168	100.495	113.674	153.761	1.00	88.97	H
ATOM	13792	C	VAL	H	168	101.127	113.312	151.017	1.00	84.02	H
ATOM	13793	O	VAL	H	168	100.841	112.156	151.335	1.00	83.28	H
ATOM	13794	N	THR	H	169	102.227	113.628	150.345	1.00	79.04	H
ATOM	13795	CA	THR	H	169	103.188	112.634	149.893	1.00	77.69	H
ATOM	13796	CB	THR	H	169	104.346	113.297	149.132	1.00	78.03	H
ATOM	13797	OG1	THR	H	169	103.866	113.798	147.881	1.00	80.41	H
ATOM	13798	CG2	THR	H	169	105.464	112.304	148.879	1.00	75.96	H
ATOM	13799	C	THR	H	169	103.788	111.796	150.997	1.00	77.55	H
ATOM	13800	O	THR	H	169	104.320	112.322	151.976	1.00	76.94	H
ATOM	13801	N	VAL	H	170	103.709	110.483	150.819	1.00	78.67	H
ATOM	13802	CA	VAL	H	170	104.268	109.545	151.779	1.00	79.36	H
ATOM	13803	CB	VAL	H	170	103.589	108.155	151.687	1.00	81.16	H
ATOM	13804	CG1	VAL	H	170	104.108	107.257	152.788	1.00	81.88	H
ATOM	13805	CG2	VAL	H	170	102.075	108.293	151.802	1.00	84.58	H
ATOM	13806	C	VAL	H	170	105.756	109.397	151.463	1.00	77.93	H
ATOM	13807	O	VAL	H	170	106.147	108.644	150.569	1.00	69.96	H
ATOM	13808	N	THR	H	171	106.572	110.159	152.185	1.00	81.34	H
ATOM	13809	CA	THR	H	171	108.018	110.132	152.023	1.00	82.80	H
ATOM	13810	CB	THR	H	171	108.683	111.372	152.714	1.00	80.07	H
ATOM	13811	OG1	THR	H	171	110.105	111.219	152.733	1.00	83.51	H
ATOM	13812	CG2	THR	H	171	108.210	111.523	154.137	1.00	76.30	H
ATOM	13813	C	THR	H	171	108.479	108.846	152.690	1.00	86.56	H

ATOM	13814	O	THR	H	171	109.494	108.817	153.386	1.00	90.47	H
ATOM	13815	N	LEU	H	172	107.723	107.776	152.460	1.00	87.50	H
ATOM	13816	CA	LEU	H	172	108.020	106.490	153.067	1.00	90.23	H
ATOM	13817	CB	LEU	H	172	106.838	105.523	152.865	1.00	94.92	H
ATOM	13818	CG	LEU	H	172	106.644	104.334	153.830	1.00	98.91	H
ATOM	13819	CD1	LEU	H	172	105.235	103.763	153.660	1.00	99.64	H
ATOM	13820	CD2	LEU	H	172	107.691	103.251	153.578	1.00	100.55	H
ATOM	13821	C	LEU	H	172	109.324	105.822	152.631	1.00	89.94	H
ATOM	13822	O	LEU	H	172	109.905	105.080	153.417	1.00	91.59	H
ATOM	13823	N	PRO	H	173	109.809	106.074	151.396	1.00	88.15	H
ATOM	13824	CD	PRO	H	173	109.552	107.199	150.483	1.00	87.40	H
ATOM	13825	CA	PRO	H	173	111.064	105.405	151.026	1.00	88.58	H
ATOM	13826	CB	PRO	H	173	111.567	106.236	149.839	1.00	86.91	H
ATOM	13827	CG	PRO	H	173	110.950	107.574	150.065	1.00	86.77	H
ATOM	13828	C	PRO	H	173	112.025	105.409	152.210	1.00	89.40	H
ATOM	13829	O	PRO	H	173	112.821	106.334	152.371	1.00	92.45	H
ATOM	13830	N	ASP	H	174	111.923	104.364	153.030	1.00	86.24	H
ATOM	13831	CA	ASP	H	174	112.710	104.215	154.247	1.00	84.42	H
ATOM	13832	CB	ASP	H	174	112.938	102.732	154.525	1.00	90.57	H
ATOM	13833	CG	ASP	H	174	111.635	101.993	154.764	1.00	95.64	H
ATOM	13834	OD1	ASP	H	174	110.869	101.808	153.790	1.00	96.76	H
ATOM	13835	OD2	ASP	H	174	111.367	101.618	155.930	1.00	101.89	H
ATOM	13836	C	ASP	H	174	114.008	105.004	154.286	1.00	80.19	H
ATOM	13837	O	ASP	H	174	114.733	105.091	153.297	1.00	77.24	H
ATOM	13838	N	TYR	H	175	114.274	105.572	155.456	1.00	76.13	H
ATOM	13839	CA	TYR	H	175	115.417	106.434	155.691	1.00	75.36	H
ATOM	13840	CB	TYR	H	175	116.308	105.921	156.812	1.00	73.13	H
ATOM	13841	CG	TYR	H	175	117.598	106.709	156.834	1.00	70.80	H
ATOM	13842	CD1	TYR	H	175	117.586	108.086	157.039	1.00	68.07	H
ATOM	13843	CE1	TYR	H	175	118.749	108.837	156.936	1.00	70.18	H
ATOM	13844	CD2	TYR	H	175	118.813	106.103	156.536	1.00	71.52	H
ATOM	13845	CE2	TYR	H	175	119.985	106.849	156.435	1.00	72.39	H
ATOM	13846	CZ	TYR	H	175	119.943	108.213	156.635	1.00	68.12	H
ATOM	13847	OH	TYR	H	175	121.093	108.950	156.537	1.00	68.47	H
ATOM	13848	C	TYR	H	175	116.327	106.824	154.537	1.00	76.93	H
ATOM	13849	O	TYR	H	175	116.571	108.008	154.322	1.00	84.72	H
ATOM	13850	N	PRO	H	176	116.886	105.858	153.802	1.00	70.57	H
ATOM	13851	CD	PRO	H	176	117.119	104.417	153.999	1.00	63.36	H
ATOM	13852	CA	PRO	H	176	117.739	106.398	152.738	1.00	64.98	H
ATOM	13853	CB	PRO	H	176	118.703	105.254	152.476	1.00	63.83	H
ATOM	13854	CG	PRO	H	176	117.816	104.048	152.719	1.00	67.97	H
ATOM	13855	C	PRO	H	176	117.007	106.847	151.471	1.00	59.75	H
ATOM	13856	O	PRO	H	176	117.495	107.706	150.738	1.00	54.87	H
ATOM	13857	N	GLY	H	177	115.831	106.266	151.241	1.00	59.39	H
ATOM	13858	CA	GLY	H	177	115.038	106.549	150.050	1.00	58.62	H
ATOM	13859	C	GLY	H	177	114.619	107.970	149.723	1.00	57.48	H
ATOM	13860	O	GLY	H	177	114.567	108.832	150.595	1.00	61.98	H
ATOM	13861	N	SER	H	178	114.306	108.202	148.451	1.00	52.19	H
ATOM	13862	CA	SER	H	178	113.882	109.514	147.982	1.00	49.26	H
ATOM	13863	CB	SER	H	178	115.073	110.283	147.413	1.00	44.32	H
ATOM	13864	OG	SER	H	178	115.345	109.894	146.071	1.00	35.70	H
ATOM	13865	C	SER	H	178	112.825	109.361	146.893	1.00	51.04	H
ATOM	13866	O	SER	H	178	112.978	108.547	145.987	1.00	51.96	H
ATOM	13867	N	VAL	H	179	111.753	110.144	146.973	1.00	53.07	H
ATOM	13868	CA	VAL	H	179	110.705	110.059	145.960	1.00	53.68	H
ATOM	13869	CB	VAL	H	179	109.293	109.823	146.557	1.00	51.24	H
ATOM	13870	CG1	VAL	H	179	109.338	108.804	147.648	1.00	52.65	H
ATOM	13871	CG2	VAL	H	179	108.730	111.123	147.072	1.00	56.55	H

ATOM	13872	C	VAL	H	179	110.605	111.357	145.190	1.00	54.38	H
ATOM	13873	O	VAL	H	179	111.152	112.390	145.605	1.00	52.80	H
ATOM	13874	N	PRO	H	180	109.921	111.313	144.035	1.00	54.36	H
ATOM	13875	CD	PRO	H	180	109.548	110.099	143.290	1.00	49.92	H
ATOM	13876	CA	PRO	H	180	109.730	112.502	143.204	1.00	50.77	H
ATOM	13877	CB	PRO	H	180	109.533	111.922	141.809	1.00	46.10	H
ATOM	13878	CG	PRO	H	180	108.806	110.677	142.092	1.00	52.66	H
ATOM	13879	C	PRO	H	180	108.466	113.121	143.778	1.00	46.16	H
ATOM	13880	O	PRO	H	180	107.635	112.409	144.355	1.00	40.82	H
ATOM	13881	N	ILE	H	181	108.345	114.438	143.662	1.00	46.70	H
ATOM	13882	CA	ILE	H	181	107.188	115.146	144.191	1.00	45.70	H
ATOM	13883	CB	ILE	H	181	107.594	116.277	145.124	1.00	46.33	H
ATOM	13884	CG2	ILE	H	181	106.349	116.911	145.701	1.00	52.87	H
ATOM	13885	CG1	ILE	H	181	108.470	115.740	146.253	1.00	47.66	H
ATOM	13886	CD1	ILE	H	181	108.968	116.802	147.207	1.00	42.45	H
ATOM	13887	C	ILE	H	181	106.357	115.745	143.080	1.00	45.64	H
ATOM	13888	O	ILE	H	181	106.735	116.739	142.445	1.00	40.37	H
ATOM	13889	N	PRO	H	182	105.195	115.148	142.835	1.00	48.61	H
ATOM	13890	CD	PRO	H	182	104.614	114.009	143.559	1.00	47.34	H
ATOM	13891	CA	PRO	H	182	104.291	115.625	141.787	1.00	47.55	H
ATOM	13892	CB	PRO	H	182	103.173	114.590	141.792	1.00	52.79	H
ATOM	13893	CG	PRO	H	182	103.795	113.378	142.486	1.00	52.98	H
ATOM	13894	C	PRO	H	182	103.776	116.999	142.167	1.00	46.28	H
ATOM	13895	O	PRO	H	182	103.097	117.157	143.185	1.00	43.29	H
ATOM	13896	N	LEU	H	183	104.122	117.993	141.362	1.00	46.71	H
ATOM	13897	CA	LEU	H	183	103.677	119.354	141.600	1.00	46.86	H
ATOM	13898	CB	LEU	H	183	104.452	119.996	142.758	1.00	47.73	H
ATOM	13899	CG	LEU	H	183	103.751	121.107	143.560	1.00	43.52	H
ATOM	13900	CD1	LEU	H	183	104.615	121.547	144.727	1.00	41.91	H
ATOM	13901	CD2	LEU	H	183	103.470	122.279	142.663	1.00	52.69	H
ATOM	13902	C	LEU	H	183	103.909	120.137	140.323	1.00	49.19	H
ATOM	13903	O	LEU	H	183	105.050	120.360	139.898	1.00	48.07	H
ATOM	13904	N	THR	H	184	102.806	120.541	139.709	1.00	51.40	H
ATOM	13905	CA	THR	H	184	102.846	121.305	138.476	1.00	49.53	H
ATOM	13906	CB	THR	H	184	102.289	120.480	137.313	1.00	50.92	H
ATOM	13907	OG1	THR	H	184	101.065	119.853	137.725	1.00	56.27	H
ATOM	13908	CG2	THR	H	184	103.286	119.415	136.883	1.00	50.62	H
ATOM	13909	C	THR	H	184	101.985	122.541	138.656	1.00	47.98	H
ATOM	13910	O	THR	H	184	101.216	122.640	139.614	1.00	44.93	H
ATOM	13911	N	VAL	H	185	102.134	123.489	137.742	1.00	45.78	H
ATOM	13912	CA	VAL	H	185	101.351	124.705	137.780	1.00	49.63	H
ATOM	13913	CB	VAL	H	185	102.120	125.896	138.409	1.00	48.99	H
ATOM	13914	CG1	VAL	H	185	102.407	125.616	139.841	1.00	59.04	H
ATOM	13915	CG2	VAL	H	185	103.415	126.164	137.653	1.00	46.59	H
ATOM	13916	C	VAL	H	185	100.989	125.111	136.370	1.00	52.40	H
ATOM	13917	O	VAL	H	185	101.810	124.999	135.449	1.00	49.63	H
ATOM	13918	N	TYR	H	186	99.755	125.567	136.194	1.00	53.34	H
ATOM	13919	CA	TYR	H	186	99.336	126.048	134.892	1.00	54.29	H
ATOM	13920	CB	TYR	H	186	98.430	125.043	134.181	1.00	51.10	H
ATOM	13921	CG	TYR	H	186	97.158	124.754	134.901	1.00	56.06	H
ATOM	13922	CD1	TYR	H	186	96.005	125.505	134.656	1.00	61.45	H
ATOM	13923	CE1	TYR	H	186	94.823	125.256	135.353	1.00	63.47	H
ATOM	13924	CD2	TYR	H	186	97.101	123.743	135.857	1.00	64.98	H
ATOM	13925	CE2	TYR	H	186	95.922	123.481	136.563	1.00	67.53	H
ATOM	13926	CZ	TYR	H	186	94.791	124.244	136.309	1.00	66.36	H
ATOM	13927	OH	TYR	H	186	93.643	124.019	137.035	1.00	71.92	H
ATOM	13928	C	TYR	H	186	98.623	127.347	135.155	1.00	54.15	H
ATOM	13929	O	TYR	H	186	98.120	127.572	136.255	1.00	51.89	H

ATOM	13930	N	CYS	H	187	98.627	128.213	134.151	1.00	55.70	H
ATOM	13931	CA	CYS	H	187	97.986	129.516	134.227	1.00	54.01	H
ATOM	13932	C	CYS	H	187	97.074	129.736	133.019	1.00	53.33	H
ATOM	13933	O	CYS	H	187	97.499	129.561	131.877	1.00	49.57	H
ATOM	13934	CB	CYS	H	187	99.033	130.625	134.217	1.00	53.50	H
ATOM	13935	SG	CYS	H	187	100.391	130.480	135.407	1.00	56.71	H
ATOM	13936	N	ALA	H	188	95.834	130.150	133.270	1.00	54.86	H
ATOM	13937	CA	ALA	H	188	94.892	130.424	132.185	1.00	51.00	H
ATOM	13938	CB	ALA	H	188	93.584	130.935	132.751	1.00	45.46	H
ATOM	13939	C	ALA	H	188	95.513	131.451	131.234	1.00	47.62	H
ATOM	13940	O	ALA	H	188	95.262	131.432	130.035	1.00	50.39	H
ATOM	13941	N	LYS	H	189	96.337	132.333	131.782	1.00	44.81	H
ATOM	13942	CA	LYS	H	189	97.028	133.344	130.997	1.00	47.36	H
ATOM	13943	CB	LYS	H	189	96.577	134.751	131.396	1.00	49.67	H
ATOM	13944	CG	LYS	H	189	95.076	134.984	131.379	1.00	56.60	H
ATOM	13945	CD	LYS	H	189	94.523	134.895	129.971	1.00	62.09	H
ATOM	13946	CE	LYS	H	189	95.177	135.914	129.037	1.00	59.06	H
ATOM	13947	NZ	LYS	H	189	94.772	135.664	127.616	1.00	61.09	H
ATOM	13948	C	LYS	H	189	98.510	133.197	131.319	1.00	50.93	H
ATOM	13949	O	LYS	H	189	98.899	133.248	132.491	1.00	55.21	H
ATOM	13950	N	SER	H	190	99.339	133.004	130.299	1.00	49.61	H
ATOM	13951	CA	SER	H	190	100.770	132.866	130.533	1.00	50.83	H
ATOM	13952	CB	SER	H	190	101.531	132.773	129.217	1.00	50.12	H
ATOM	13953	OG	SER	H	190	102.769	133.465	129.327	1.00	52.47	H
ATOM	13954	C	SER	H	190	101.328	134.040	131.335	1.00	49.93	H
ATOM	13955	O	SER	H	190	100.910	135.185	131.153	1.00	49.20	H
ATOM	13956	N	GLN	H	191	102.276	133.740	132.218	1.00	50.01	H
ATOM	13957	CA	GLN	H	191	102.915	134.753	133.056	1.00	45.56	H
ATOM	13958	CB	GLN	H	191	101.919	135.288	134.075	1.00	44.40	H
ATOM	13959	CG	GLN	H	191	101.264	134.210	134.894	1.00	51.33	H
ATOM	13960	CD	GLN	H	191	100.249	134.771	135.852	1.00	51.33	H
ATOM	13961	OE1	GLN	H	191	100.588	135.541	136.747	1.00	56.10	H
ATOM	13962	NE2	GLN	H	191	98.990	134.392	135.670	1.00	56.09	H
ATOM	13963	C	GLN	H	191	104.127	134.178	133.779	1.00	41.64	H
ATOM	13964	O	GLN	H	191	104.243	132.972	133.968	1.00	39.29	H
ATOM	13965	N	ASN	H	192	105.040	135.050	134.175	1.00	44.57	H
ATOM	13966	CA	ASN	H	192	106.230	134.608	134.881	1.00	46.39	H
ATOM	13967	CB	ASN	H	192	107.315	135.651	134.747	1.00	49.07	H
ATOM	13968	CG	ASN	H	192	107.547	136.032	133.322	1.00	58.06	H
ATOM	13969	OD1	ASN	H	192	107.581	135.168	132.436	1.00	59.30	H
ATOM	13970	ND2	ASN	H	192	107.709	137.330	133.074	1.00	66.46	H
ATOM	13971	C	ASN	H	192	105.992	134.316	136.353	1.00	45.06	H
ATOM	13972	O	ASN	H	192	105.457	135.140	137.099	1.00	51.08	H
ATOM	13973	N	LEU	H	193	106.391	133.124	136.762	1.00	41.81	H
ATOM	13974	CA	LEU	H	193	106.249	132.708	138.136	1.00	36.67	H
ATOM	13975	CB	LEU	H	193	105.381	131.457	138.241	1.00	32.09	H
ATOM	13976	CG	LEU	H	193	103.874	131.591	138.063	1.00	36.58	H
ATOM	13977	CD1	LEU	H	193	103.207	130.239	138.333	1.00	25.96	H
ATOM	13978	CD2	LEU	H	193	103.345	132.664	139.021	1.00	37.49	H
ATOM	13979	C	LEU	H	193	107.611	132.393	138.716	1.00	38.64	H
ATOM	13980	O	LEU	H	193	108.576	132.145	138.003	1.00	37.46	H
ATOM	13981	N	GLY	H	194	107.668	132.410	140.035	1.00	40.79	H
ATOM	13982	CA	GLY	H	194	108.883	132.093	140.742	1.00	37.66	H
ATOM	13983	C	GLY	H	194	108.380	131.498	142.032	1.00	36.00	H
ATOM	13984	O	GLY	H	194	107.228	131.733	142.396	1.00	34.68	H
ATOM	13985	N	TYR	H	195	109.196	130.696	142.704	1.00	34.44	H
ATOM	13986	CA	TYR	H	195	108.766	130.151	143.978	1.00	32.25	H
ATOM	13987	CB	TYR	H	195	108.085	128.805	143.800	1.00	31.62	H

ATOM	13988	CG	TYR	H	195	109.037	127.683	143.515	1.00	43.43	H
ATOM	13989	CD1	TYR	H	195	109.558	127.494	142.235	1.00	43.17	H
ATOM	13990	CE1	TYR	H	195	110.448	126.461	141.974	1.00	43.52	H
ATOM	13991	CD2	TYR	H	195	109.433	126.806	144.532	1.00	39.54	H
ATOM	13992	CE2	TYR	H	195	110.324	125.769	144.279	1.00	43.30	H
ATOM	13993	CZ	TYR	H	195	110.831	125.602	142.996	1.00	45.04	H
ATOM	13994	OH	TYR	H	195	111.725	124.583	142.731	1.00	45.61	H
ATOM	13995	C	TYR	H	195	109.924	130.008	144.942	1.00	30.34	H
ATOM	13996	O	TYR	H	195	111.094	130.078	144.554	1.00	30.88	H
ATOM	13997	N	TYR	H	196	109.583	129.860	146.215	1.00	28.11	H
ATOM	13998	CA	TYR	H	196	110.571	129.666	147.262	1.00	27.63	H
ATOM	13999	CB	TYR	H	196	111.133	130.994	147.790	1.00	27.80	H
ATOM	14000	CG	TYR	H	196	110.170	131.864	148.563	1.00	31.18	H
ATOM	14001	CD1	TYR	H	196	109.679	131.476	149.813	1.00	31.07	H
ATOM	14002	CE1	TYR	H	196	108.805	132.282	150.516	1.00	23.79	H
ATOM	14003	CD2	TYR	H	196	109.754	133.082	148.046	1.00	29.14	H
ATOM	14004	CE2	TYR	H	196	108.883	133.887	148.737	1.00	33.63	H
ATOM	14005	CZ	TYR	H	196	108.412	133.489	149.969	1.00	31.09	H
ATOM	14006	OH	TYR	H	196	107.566	134.337	150.634	1.00	31.91	H
ATOM	14007	C	TYR	H	196	109.937	128.871	148.383	1.00	26.61	H
ATOM	14008	O	TYR	H	196	108.710	128.906	148.579	1.00	23.91	H
ATOM	14009	N	LEU	H	197	110.786	128.121	149.083	1.00	25.44	H
ATOM	14010	CA	LEU	H	197	110.365	127.286	150.195	1.00	22.78	H
ATOM	14011	CB	LEU	H	197	111.215	126.031	150.234	1.00	19.75	H
ATOM	14012	CG	LEU	H	197	111.106	125.212	148.958	1.00	23.46	H
ATOM	14013	CD1	LEU	H	197	111.966	123.970	149.090	1.00	28.74	H
ATOM	14014	CD2	LEU	H	197	109.662	124.825	148.717	1.00	24.37	H
ATOM	14015	C	LEU	H	197	110.493	128.051	151.506	1.00	20.49	H
ATOM	14016	O	LEU	H	197	111.249	129.025	151.611	1.00	21.61	H
ATOM	14017	N	SER	H	198	109.750	127.604	152.504	1.00	17.93	H
ATOM	14018	CA	SER	H	198	109.750	128.252	153.804	1.00	20.55	H
ATOM	14019	CB	SER	H	198	108.710	129.359	153.806	1.00	23.39	H
ATOM	14020	OG	SER	H	198	107.415	128.781	153.653	1.00	31.23	H
ATOM	14021	C	SER	H	198	109.391	127.236	154.890	1.00	24.11	H
ATOM	14022	O	SER	H	198	108.511	126.385	154.713	1.00	19.72	H
ATOM	14023	N	GLY	H	199	110.061	127.352	156.027	1.00	25.96	H
ATOM	14024	CA	GLY	H	199	109.812	126.439	157.118	1.00	22.20	H
ATOM	14025	C	GLY	H	199	111.009	126.367	158.032	1.00	24.16	H
ATOM	14026	O	GLY	H	199	112.063	126.920	157.732	1.00	26.40	H
ATOM	14027	N	THR	H	200	110.841	125.679	159.154	1.00	27.87	H
ATOM	14028	CA	THR	H	200	111.898	125.516	160.147	1.00	28.68	H
ATOM	14029	CB	THR	H	200	111.358	124.847	161.411	1.00	28.34	H
ATOM	14030	OG1	THR	H	200	110.245	125.594	161.894	1.00	29.76	H
ATOM	14031	CG2	THR	H	200	112.416	124.807	162.478	1.00	28.23	H
ATOM	14032	C	THR	H	200	113.024	124.663	159.599	1.00	25.78	H
ATOM	14033	O	THR	H	200	112.799	123.567	159.116	1.00	23.94	H
ATOM	14034	N	THR	H	201	114.237	125.178	159.697	1.00	27.23	H
ATOM	14035	CA	THR	H	201	115.403	124.496	159.170	1.00	29.83	H
ATOM	14036	CB	THR	H	201	116.142	125.458	158.249	1.00	28.38	H
ATOM	14037	OG1	THR	H	201	115.741	125.195	156.903	1.00	32.94	H
ATOM	14038	CG2	THR	H	201	117.639	125.335	158.406	1.00	36.68	H
ATOM	14039	C	THR	H	201	116.336	123.949	160.245	1.00	31.75	H
ATOM	14040	O	THR	H	201	116.365	124.452	161.372	1.00	34.91	H
ATOM	14041	N	ALA	H	202	117.122	122.932	159.904	1.00	27.64	H
ATOM	14042	CA	ALA	H	202	117.996	122.351	160.911	1.00	26.45	H
ATOM	14043	CB	ALA	H	202	117.631	120.869	161.121	1.00	21.14	H
ATOM	14044	C	ALA	H	202	119.470	122.471	160.621	1.00	22.82	H
ATOM	14045	O	ALA	H	202	120.287	121.885	161.338	1.00	21.67	H

ATOM	14046	N	ASP	H	203	119.822	123.240	159.597	1.00	20.54	H
ATOM	14047	CA	ASP	H	203	121.226	123.355	159.209	1.00	18.33	H
ATOM	14048	CB	ASP	H	203	121.500	122.451	158.016	1.00	24.60	H
ATOM	14049	CG	ASP	H	203	120.582	122.732	156.846	1.00	28.66	H
ATOM	14050	OD1	ASP	H	203	121.086	122.902	155.720	1.00	36.00	H
ATOM	14051	OD2	ASP	H	203	119.356	122.787	157.045	1.00	31.53	H
ATOM	14052	C	ASP	H	203	121.653	124.744	158.855	1.00	20.37	H
ATOM	14053	O	ASP	H	203	120.820	125.584	158.542	1.00	23.97	H
ATOM	14054	N	ALA	H	204	122.957	124.984	158.900	1.00	20.49	H
ATOM	14055	CA	ALA	H	204	123.512	126.289	158.576	1.00	21.89	H
ATOM	14056	CB	ALA	H	204	124.982	126.287	158.834	1.00	10.94	H
ATOM	14057	C	ALA	H	204	123.240	126.656	157.114	1.00	29.50	H
ATOM	14058	O	ALA	H	204	123.128	127.836	156.775	1.00	37.30	H
ATOM	14059	N	GLY	H	205	123.149	125.650	156.248	1.00	28.21	H
ATOM	14060	CA	GLY	H	205	122.867	125.918	154.851	1.00	29.37	H
ATOM	14061	C	GLY	H	205	121.383	126.188	154.662	1.00	30.07	H
ATOM	14062	O	GLY	H	205	120.898	126.438	153.561	1.00	30.01	H
ATOM	14063	N	ASN	H	206	120.658	126.114	155.766	1.00	31.73	H
ATOM	14064	CA	ASN	H	206	119.233	126.378	155.783	1.00	32.88	H
ATOM	14065	CB	ASN	H	206	119.012	127.893	155.681	1.00	31.50	H
ATOM	14066	CG	ASN	H	206	117.559	128.289	155.875	1.00	41.02	H
ATOM	14067	OD1	ASN	H	206	116.993	129.022	155.060	1.00	46.28	H
ATOM	14068	ND2	ASN	H	206	116.948	127.815	156.959	1.00	37.88	H
ATOM	14069	C	ASN	H	206	118.430	125.633	154.708	1.00	31.61	H
ATOM	14070	O	ASN	H	206	117.475	126.169	154.156	1.00	30.34	H
ATOM	14071	N	SER	H	207	118.785	124.385	154.434	1.00	32.52	H
ATOM	14072	CA	SER	H	207	118.055	123.638	153.417	1.00	32.07	H
ATOM	14073	CB	SER	H	207	118.882	123.523	152.147	1.00	31.58	H
ATOM	14074	OG	SER	H	207	119.845	122.516	152.309	1.00	40.47	H
ATOM	14075	C	SER	H	207	117.596	122.248	153.810	1.00	28.09	H
ATOM	14076	O	SER	H	207	117.205	121.477	152.949	1.00	28.99	H
ATOM	14077	N	ILE	H	208	117.659	121.919	155.096	1.00	28.26	H
ATOM	14078	CA	ILE	H	208	117.209	120.608	155.591	1.00	28.26	H
ATOM	14079	CB	ILE	H	208	118.344	119.847	156.305	1.00	18.95	H
ATOM	14080	CG2	ILE	H	208	117.855	118.505	156.743	1.00	16.45	H
ATOM	14081	CG1	ILE	H	208	119.524	119.673	155.353	1.00	22.54	H
ATOM	14082	CD1	ILE	H	208	120.790	119.282	156.005	1.00	26.01	H
ATOM	14083	C	ILE	H	208	116.071	120.879	156.567	1.00	33.69	H
ATOM	14084	O	ILE	H	208	116.283	121.364	157.688	1.00	36.66	H
ATOM	14085	N	PHE	H	209	114.853	120.586	156.133	1.00	35.75	H
ATOM	14086	CA	PHE	H	209	113.705	120.866	156.967	1.00	38.07	H
ATOM	14087	CB	PHE	H	209	112.445	120.938	156.110	1.00	38.88	H
ATOM	14088	CG	PHE	H	209	112.432	122.118	155.179	1.00	36.23	H
ATOM	14089	CD1	PHE	H	209	113.050	122.045	153.935	1.00	37.11	H
ATOM	14090	CD2	PHE	H	209	111.893	123.339	155.590	1.00	37.25	H
ATOM	14091	CE1	PHE	H	209	113.140	123.174	153.113	1.00	36.74	H
ATOM	14092	CE2	PHE	H	209	111.977	124.471	154.781	1.00	36.92	H
ATOM	14093	CZ	PHE	H	209	112.604	124.389	153.539	1.00	36.72	H
ATOM	14094	C	PHE	H	209	113.515	119.950	158.147	1.00	41.83	H
ATOM	14095	O	PHE	H	209	113.390	118.734	158.009	1.00	47.27	H
ATOM	14096	N	THR	H	210	113.518	120.576	159.316	1.00	45.10	H
ATOM	14097	CA	THR	H	210	113.363	119.929	160.612	1.00	48.31	H
ATOM	14098	CB	THR	H	210	113.017	120.986	161.662	1.00	49.42	H
ATOM	14099	OG1	THR	H	210	114.191	121.754	161.952	1.00	52.37	H
ATOM	14100	CG2	THR	H	210	112.473	120.347	162.928	1.00	55.01	H
ATOM	14101	C	THR	H	210	112.314	118.831	160.670	1.00	50.87	H
ATOM	14102	O	THR	H	210	111.227	118.971	160.107	1.00	48.74	H
ATOM	14103	N	ASN	H	211	112.641	117.742	161.369	1.00	54.82	H

ATOM	14104	CA	ASN	H	211	111.703	116.638	161.508	1.00	56.25	H
ATOM	14105	CB	ASN	H	211	112.392	115.373	161.999	1.00	56.72	H
ATOM	14106	CG	ASN	H	211	111.415	114.212	162.169	1.00	58.89	H
ATOM	14107	OD1	ASN	H	211	111.804	113.110	162.561	1.00	61.29	H
ATOM	14108	ND2	ASN	H	211	110.142	114.455	161.871	1.00	51.71	H
ATOM	14109	C	ASN	H	211	110.619	117.002	162.492	1.00	56.46	H
ATOM	14110	O	ASN	H	211	110.879	117.225	163.668	1.00	56.79	H
ATOM	14111	N	THR	H	212	109.397	117.049	161.996	1.00	59.49	H
ATOM	14112	CA	THR	H	212	108.250	117.387	162.814	1.00	65.57	H
ATOM	14113	CB	THR	H	212	107.507	118.575	162.199	1.00	64.39	H
ATOM	14114	OG1	THR	H	212	108.231	119.777	162.478	1.00	58.48	H
ATOM	14115	CG2	THR	H	212	106.093	118.671	162.743	1.00	67.49	H
ATOM	14116	C	THR	H	212	107.311	116.190	162.904	1.00	71.24	H
ATOM	14117	O	THR	H	212	106.616	115.865	161.942	1.00	73.17	H
ATOM	14118	N	ALA	H	213	107.294	115.537	164.060	1.00	74.36	H
ATOM	14119	CA	ALA	H	213	106.446	114.372	164.264	1.00	77.12	H
ATOM	14120	CB	ALA	H	213	106.868	113.249	163.330	1.00	71.87	H
ATOM	14121	C	ALA	H	213	106.570	113.921	165.704	1.00	80.84	H
ATOM	14122	O	ALA	H	213	107.583	114.184	166.360	1.00	77.68	H
ATOM	14123	N	SER	H	214	105.540	113.238	166.195	1.00	87.98	H
ATOM	14124	CA	SER	H	214	105.559	112.753	167.567	1.00	94.77	H
ATOM	14125	CB	SER	H	214	104.186	112.939	168.213	1.00	94.65	H
ATOM	14126	OG	SER	H	214	104.275	112.789	169.622	1.00	99.69	H
ATOM	14127	C	SER	H	214	106.003	111.284	167.676	1.00	97.83	H
ATOM	14128	O	SER	H	214	107.039	110.998	168.286	1.00	96.55	H
ATOM	14129	N	PHE	H	215	105.239	110.363	167.081	1.00	100.81	H
ATOM	14130	CA	PHE	H	215	105.571	108.932	167.137	1.00	105.18	H
ATOM	14131	CB	PHE	H	215	104.851	108.149	166.030	1.00	111.67	H
ATOM	14132	CG	PHE	H	215	105.139	106.660	166.050	1.00	119.34	H
ATOM	14133	CD1	PHE	H	215	105.105	105.911	164.873	1.00	122.02	H
ATOM	14134	CD2	PHE	H	215	105.452	106.008	167.247	1.00	120.28	H
ATOM	14135	CE1	PHE	H	215	105.380	104.537	164.884	1.00	123.18	H
ATOM	14136	CE2	PHE	H	215	105.726	104.638	167.270	1.00	122.40	H
ATOM	14137	CZ	PHE	H	215	105.691	103.902	166.085	1.00	123.80	H
ATOM	14138	C	PHE	H	215	107.071	108.640	167.042	1.00	104.89	H
ATOM	14139	O	PHE	H	215	107.629	108.531	165.944	1.00	101.67	H
ATOM	14140	N	SER	H	216	107.702	108.482	168.204	1.00	106.43	H
ATOM	14141	CA	SER	H	216	109.132	108.208	168.291	1.00	107.06	H
ATOM	14142	CB	SER	H	216	109.395	106.701	168.260	1.00	109.87	H
ATOM	14143	OG	SER	H	216	110.765	106.435	168.515	1.00	113.29	H
ATOM	14144	C	SER	H	216	109.844	108.890	167.131	1.00	104.81	H
ATOM	14145	O	SER	H	216	110.051	108.300	166.068	1.00	104.93	H
ATOM	14146	N	PRO	H	217	110.230	110.153	167.329	1.00	102.07	H
ATOM	14147	CD	PRO	H	217	110.213	110.862	168.621	1.00	102.68	H
ATOM	14148	CA	PRO	H	217	110.918	110.948	166.314	1.00	98.56	H
ATOM	14149	CB	PRO	H	217	111.111	112.289	167.009	1.00	100.53	H
ATOM	14150	CG	PRO	H	217	111.315	111.883	168.436	1.00	101.75	H
ATOM	14151	C	PRO	H	217	112.236	110.362	165.841	1.00	93.06	H
ATOM	14152	O	PRO	H	217	113.255	110.506	166.511	1.00	91.90	H
ATOM	14153	N	ALA	H	218	112.211	109.697	164.691	1.00	86.42	H
ATOM	14154	CA	ALA	H	218	113.432	109.146	164.142	1.00	82.78	H
ATOM	14155	CB	ALA	H	218	113.193	108.647	162.733	1.00	80.33	H
ATOM	14156	C	ALA	H	218	114.403	110.322	164.130	1.00	79.90	H
ATOM	14157	O	ALA	H	218	114.479	111.065	163.155	1.00	84.85	H
ATOM	14158	N	GLN	H	219	115.137	110.494	165.221	1.00	74.32	H
ATOM	14159	CA	GLN	H	219	116.073	111.601	165.344	1.00	72.90	H
ATOM	14160	CB	GLN	H	219	116.591	111.684	166.773	1.00	74.31	H
ATOM	14161	CG	GLN	H	219	117.585	112.808	166.975	1.00	82.30	H

ATOM	14162	CD	GLN	H	219	118.255	112.746	168.324	1.00	87.75	H
ATOM	14163	OE1	GLN	H	219	119.094	113.588	168.656	1.00	90.57	H
ATOM	14164	NE2	GLN	H	219	117.889	111.742	169.116	1.00	90.90	H
ATOM	14165	C	GLN	H	219	117.273	111.558	164.408	1.00	71.22	H
ATOM	14166	O	GLN	H	219	117.685	110.487	163.961	1.00	70.45	H
ATOM	14167	N	GLY	H	220	117.825	112.739	164.118	1.00	69.51	H
ATOM	14168	CA	GLY	H	220	119.012	112.843	163.278	1.00	65.41	H
ATOM	14169	C	GLY	H	220	118.876	113.016	161.778	1.00	61.51	H
ATOM	14170	O	GLY	H	220	119.874	113.259	161.096	1.00	59.70	H
ATOM	14171	N	VAL	H	221	117.660	112.902	161.254	1.00	59.07	H
ATOM	14172	CA	VAL	H	221	117.465	113.041	159.823	1.00	57.35	H
ATOM	14173	CB	VAL	H	221	116.577	111.910	159.266	1.00	57.11	H
ATOM	14174	CG1	VAL	H	221	116.776	111.793	157.764	1.00	57.94	H
ATOM	14175	CG2	VAL	H	221	116.921	110.611	159.925	1.00	53.63	H
ATOM	14176	C	VAL	H	221	116.883	114.396	159.410	1.00	57.07	H
ATOM	14177	O	VAL	H	221	117.443	115.434	159.741	1.00	59.33	H
ATOM	14178	N	GLY	H	222	115.764	114.382	158.689	1.00	53.16	H
ATOM	14179	CA	GLY	H	222	115.164	115.615	158.215	1.00	48.07	H
ATOM	14180	C	GLY	H	222	114.984	115.556	156.706	1.00	42.88	H
ATOM	14181	O	GLY	H	222	115.757	114.903	156.020	1.00	43.25	H
ATOM	14182	N	VAL	H	223	113.968	116.246	156.197	1.00	38.68	H
ATOM	14183	CA	VAL	H	223	113.639	116.277	154.768	1.00	34.75	H
ATOM	14184	CB	VAL	H	223	112.114	116.370	154.586	1.00	38.82	H
ATOM	14185	CG1	VAL	H	223	111.762	116.539	153.119	1.00	36.71	H
ATOM	14186	CG2	VAL	H	223	111.456	115.129	155.171	1.00	38.10	H
ATOM	14187	C	VAL	H	223	114.271	117.428	153.979	1.00	34.00	H
ATOM	14188	O	VAL	H	223	114.246	118.584	154.412	1.00	36.39	H
ATOM	14189	N	GLN	H	224	114.823	117.116	152.810	1.00	32.08	H
ATOM	14190	CA	GLN	H	224	115.450	118.137	151.960	1.00	32.65	H
ATOM	14191	CB	GLN	H	224	116.962	117.946	151.901	1.00	25.01	H
ATOM	14192	CG	GLN	H	224	117.696	119.059	151.202	1.00	31.48	H
ATOM	14193	CD	GLN	H	224	119.187	118.764	151.036	1.00	37.29	H
ATOM	14194	OE1	GLN	H	224	120.031	119.649	151.158	1.00	36.62	H
ATOM	14195	NE2	GLN	H	224	119.509	117.517	150.741	1.00	40.21	H
ATOM	14196	C	GLN	H	224	114.864	117.993	150.559	1.00	35.23	H
ATOM	14197	O	GLN	H	224	114.726	116.881	150.051	1.00	35.88	H
ATOM	14198	N	LEU	H	225	114.505	119.112	149.940	1.00	34.47	H
ATOM	14199	CA	LEU	H	225	113.918	119.064	148.616	1.00	29.04	H
ATOM	14200	CB	LEU	H	225	112.711	119.988	148.532	1.00	29.27	H
ATOM	14201	CG	LEU	H	225	111.601	119.701	149.544	1.00	35.55	H
ATOM	14202	CD1	LEU	H	225	110.323	120.430	149.147	1.00	32.28	H
ATOM	14203	CD2	LEU	H	225	111.342	118.217	149.606	1.00	37.60	H
ATOM	14204	C	LEU	H	225	114.921	119.412	147.544	1.00	30.35	H
ATOM	14205	O	LEU	H	225	115.781	120.291	147.704	1.00	31.42	H
ATOM	14206	N	THR	H	226	114.788	118.720	146.427	1.00	27.07	H
ATOM	14207	CA	THR	H	226	115.704	118.919	145.339	1.00	24.75	H
ATOM	14208	CB	THR	H	226	116.662	117.707	145.340	1.00	24.75	H
ATOM	14209	OG1	THR	H	226	117.937	118.089	144.817	1.00	30.79	H
ATOM	14210	CG2	THR	H	226	116.059	116.554	144.555	1.00	24.51	H
ATOM	14211	C	THR	H	226	114.914	119.070	144.025	1.00	22.12	H
ATOM	14212	O	THR	H	226	113.800	118.538	143.893	1.00	16.73	H
ATOM	14213	N	ARG	H	227	115.466	119.834	143.082	1.00	22.02	H
ATOM	14214	CA	ARG	H	227	114.823	120.045	141.767	1.00	29.48	H
ATOM	14215	CB	ARG	H	227	114.402	121.532	141.577	1.00	23.81	H
ATOM	14216	CG	ARG	H	227	115.549	122.548	141.646	1.00	21.69	H
ATOM	14217	CD	ARG	H	227	115.055	124.002	141.531	1.00	31.36	H
ATOM	14218	NE	ARG	H	227	116.058	124.873	140.909	1.00	28.03	H
ATOM	14219	CZ	ARG	H	227	116.876	125.680	141.571	1.00	34.10	H

ATOM	14220	NH1	ARG	H	227	116.815	125.749	142.897	1.00	39.69	H
ATOM	14221	NH2	ARG	H	227	117.768	126.405	140.906	1.00	32.51	H
ATOM	14222	C	ARG	H	227	115.826	119.587	140.692	1.00	31.56	H
ATOM	14223	O	ARG	H	227	116.781	120.295	140.348	1.00	25.76	H
ATOM	14224	N	ASN	H	228	115.597	118.378	140.181	1.00	39.43	H
ATOM	14225	CA	ASN	H	228	116.501	117.760	139.212	1.00	42.88	H
ATOM	14226	CB	ASN	H	228	116.404	118.464	137.862	1.00	47.91	H
ATOM	14227	CG	ASN	H	228	115.134	118.113	137.130	1.00	53.64	H
ATOM	14228	OD1	ASN	H	228	115.037	118.301	135.925	1.00	65.36	H
ATOM	14229	ND2	ASN	H	228	114.147	117.594	137.857	1.00	54.42	H
ATOM	14230	C	ASN	H	228	117.942	117.787	139.730	1.00	41.55	H
ATOM	14231	O	ASN	H	228	118.864	118.240	139.047	1.00	40.53	H
ATOM	14232	N	GLY	H	229	118.129	117.322	140.960	1.00	40.99	H
ATOM	14233	CA	GLY	H	229	119.465	117.304	141.525	1.00	39.98	H
ATOM	14234	C	GLY	H	229	119.918	118.535	142.288	1.00	42.34	H
ATOM	14235	O	GLY	H	229	120.809	118.430	143.138	1.00	42.39	H
ATOM	14236	N	THR	H	230	119.338	119.696	141.990	1.00	41.21	H
ATOM	14237	CA	THR	H	230	119.723	120.925	142.676	1.00	39.54	H
ATOM	14238	CB	THR	H	230	119.437	122.152	141.830	1.00	38.24	H
ATOM	14239	OG1	THR	H	230	120.329	122.167	140.721	1.00	43.39	H
ATOM	14240	CG2	THR	H	230	119.634	123.422	142.643	1.00	39.08	H
ATOM	14241	C	THR	H	230	118.966	121.075	143.981	1.00	40.50	H
ATOM	14242	O	THR	H	230	117.747	120.872	144.034	1.00	45.07	H
ATOM	14243	N	ILE	H	231	119.694	121.428	145.033	1.00	34.41	H
ATOM	14244	CA	ILE	H	231	119.099	121.597	146.341	1.00	32.04	H
ATOM	14245	CB	ILE	H	231	120.180	121.554	147.453	1.00	35.88	H
ATOM	14246	CG2	ILE	H	231	119.603	122.041	148.784	1.00	31.13	H
ATOM	14247	CG1	ILE	H	231	120.726	120.134	147.606	1.00	29.21	H
ATOM	14248	CD1	ILE	H	231	121.819	120.043	148.655	1.00	34.77	H
ATOM	14249	C	ILE	H	231	118.374	122.924	146.412	1.00	30.25	H
ATOM	14250	O	ILE	H	231	118.830	123.932	145.876	1.00	31.04	H
ATOM	14251	N	ILE	H	232	117.238	122.919	147.083	1.00	28.75	H
ATOM	14252	CA	ILE	H	232	116.462	124.132	147.233	1.00	26.59	H
ATOM	14253	CB	ILE	H	232	115.017	123.896	146.761	1.00	24.40	H
ATOM	14254	CG2	ILE	H	232	114.218	125.195	146.818	1.00	24.73	H
ATOM	14255	CG1	ILE	H	232	115.028	123.373	145.321	1.00	25.06	H
ATOM	14256	CD1	ILE	H	232	113.691	122.837	144.852	1.00	11.31	H
ATOM	14257	C	ILE	H	232	116.451	124.611	148.694	1.00	27.13	H
ATOM	14258	O	ILE	H	232	115.702	124.104	149.524	1.00	31.62	H
ATOM	14259	N	PRO	H	233	117.326	125.556	149.040	1.00	23.15	H
ATOM	14260	CD	PRO	H	233	118.570	125.958	148.364	1.00	17.70	H
ATOM	14261	CA	PRO	H	233	117.298	126.021	150.432	1.00	25.73	H
ATOM	14262	CB	PRO	H	233	118.641	126.748	150.590	1.00	26.75	H
ATOM	14263	CG	PRO	H	233	119.012	127.128	149.185	1.00	22.96	H
ATOM	14264	C	PRO	H	233	116.100	126.949	150.635	1.00	26.91	H
ATOM	14265	O	PRO	H	233	115.636	127.577	149.683	1.00	29.49	H
ATOM	14266	N	ALA	H	234	115.596	127.021	151.862	1.00	24.04	H
ATOM	14267	CA	ALA	H	234	114.453	127.876	152.178	1.00	23.39	H
ATOM	14268	CB	ALA	H	234	114.140	127.787	153.628	1.00	25.04	H
ATOM	14269	C	ALA	H	234	114.718	129.323	151.821	1.00	24.76	H
ATOM	14270	O	ALA	H	234	115.824	129.819	152.032	1.00	24.11	H
ATOM	14271	N	ASN	H	235	113.703	129.994	151.272	1.00	25.15	H
ATOM	14272	CA	ASN	H	235	113.814	131.408	150.893	1.00	27.41	H
ATOM	14273	CB	ASN	H	235	114.078	132.251	152.142	1.00	23.61	H
ATOM	14274	CG	ASN	H	235	113.062	131.982	153.214	1.00	31.16	H
ATOM	14275	OD1	ASN	H	235	113.386	131.458	154.282	1.00	36.51	H
ATOM	14276	ND2	ASN	H	235	111.810	132.304	152.927	1.00	25.17	H
ATOM	14277	C	ASN	H	235	114.842	131.734	149.816	1.00	27.96	H

ATOM	14278	O	ASN	H	235	115.534	132.737	149.890	1.00	28.55	H
ATOM	14279	N	ASN	H	236	114.924	130.864	148.820	1.00	30.71	H
ATOM	14280	CA	ASN	H	236	115.815	131.015	147.683	1.00	31.60	H
ATOM	14281	CB	ASN	H	236	116.804	129.840	147.627	1.00	42.82	H
ATOM	14282	CG	ASN	H	236	117.579	129.775	146.311	1.00	43.13	H
ATOM	14283	OD1	ASN	H	236	118.295	130.708	145.955	1.00	43.69	H
ATOM	14284	ND2	ASN	H	236	117.437	128.664	145.588	1.00	43.75	H
ATOM	14285	C	ASN	H	236	114.848	130.952	146.511	1.00	33.29	H
ATOM	14286	O	ASN	H	236	114.389	129.872	146.152	1.00	35.98	H
ATOM	14287	N	THR	H	237	114.527	132.092	145.918	1.00	29.60	H
ATOM	14288	CA	THR	H	237	113.563	132.086	144.833	1.00	34.76	H
ATOM	14289	CB	THR	H	237	113.113	133.533	144.474	1.00	39.32	H
ATOM	14290	OG1	THR	H	237	112.798	134.259	145.675	1.00	45.86	H
ATOM	14291	CG2	THR	H	237	111.864	133.484	143.620	1.00	39.98	H
ATOM	14292	C	THR	H	237	114.008	131.358	143.566	1.00	33.90	H
ATOM	14293	O	THR	H	237	115.046	131.661	142.981	1.00	32.31	H
ATOM	14294	N	VAL	H	238	113.212	130.374	143.165	1.00	34.04	H
ATOM	14295	CA	VAL	H	238	113.497	129.615	141.963	1.00	39.07	H
ATOM	14296	CB	VAL	H	238	113.200	128.116	142.137	1.00	41.73	H
ATOM	14297	CG1	VAL	H	238	113.230	127.417	140.777	1.00	40.69	H
ATOM	14298	CG2	VAL	H	238	114.225	127.492	143.049	1.00	47.55	H
ATOM	14299	C	VAL	H	238	112.596	130.151	140.871	1.00	40.76	H
ATOM	14300	O	VAL	H	238	111.370	130.126	140.990	1.00	39.50	H
ATOM	14301	N	SER	H	239	113.209	130.631	139.802	1.00	43.12	H
ATOM	14302	CA	SER	H	239	112.449	131.183	138.699	1.00	42.55	H
ATOM	14303	CB	SER	H	239	113.280	132.193	137.940	1.00	41.50	H
ATOM	14304	OG	SER	H	239	112.526	132.640	136.836	1.00	52.45	H
ATOM	14305	C	SER	H	239	111.965	130.142	137.721	1.00	40.68	H
ATOM	14306	O	SER	H	239	112.759	129.460	137.086	1.00	43.81	H
ATOM	14307	N	LEU	H	240	110.653	130.045	137.591	1.00	39.84	H
ATOM	14308	CA	LEU	H	240	110.019	129.099	136.679	1.00	38.79	H
ATOM	14309	CB	LEU	H	240	108.626	128.763	137.188	1.00	31.99	H
ATOM	14310	CG	LEU	H	240	108.560	127.745	138.319	1.00	32.02	H
ATOM	14311	CD1	LEU	H	240	107.132	127.656	138.831	1.00	33.09	H
ATOM	14312	CD2	LEU	H	240	109.033	126.392	137.820	1.00	20.05	H
ATOM	14313	C	LEU	H	240	109.901	129.594	135.233	1.00	40.23	H
ATOM	14314	O	LEU	H	240	109.581	128.818	134.340	1.00	39.03	H
ATOM	14315	N	GLY	H	241	110.166	130.879	135.006	1.00	43.57	H
ATOM	14316	CA	GLY	H	241	110.043	131.436	133.672	1.00	44.62	H
ATOM	14317	C	GLY	H	241	108.575	131.683	133.347	1.00	45.50	H
ATOM	14318	O	GLY	H	241	107.796	132.034	134.227	1.00	45.67	H
ATOM	14319	N	ALA	H	242	108.187	131.506	132.090	1.00	45.53	H
ATOM	14320	CA	ALA	H	242	106.797	131.709	131.711	1.00	45.23	H
ATOM	14321	CB	ALA	H	242	106.702	132.212	130.297	1.00	45.46	H
ATOM	14322	C	ALA	H	242	106.030	130.412	131.840	1.00	44.52	H
ATOM	14323	O	ALA	H	242	106.450	129.374	131.332	1.00	45.48	H
ATOM	14324	N	VAL	H	243	104.909	130.476	132.541	1.00	43.53	H
ATOM	14325	CA	VAL	H	243	104.068	129.313	132.728	1.00	45.65	H
ATOM	14326	CB	VAL	H	243	103.857	129.028	134.198	1.00	42.10	H
ATOM	14327	CG1	VAL	H	243	102.982	127.788	134.365	1.00	46.00	H
ATOM	14328	CG2	VAL	H	243	105.188	128.833	134.859	1.00	45.73	H
ATOM	14329	C	VAL	H	243	102.723	129.618	132.085	1.00	50.94	H
ATOM	14330	O	VAL	H	243	102.117	130.659	132.367	1.00	56.16	H
ATOM	14331	N	GLY	H	244	102.265	128.715	131.223	1.00	47.40	H
ATOM	14332	CA	GLY	H	244	101.015	128.928	130.540	1.00	46.28	H
ATOM	14333	C	GLY	H	244	99.969	127.853	130.737	1.00	50.75	H
ATOM	14334	O	GLY	H	244	99.806	127.304	131.833	1.00	50.72	H
ATOM	14335	N	THR	H	245	99.259	127.549	129.652	1.00	54.31	H

ATOM	14336	CA	THR	H	245	98.175	126.576	129.684	1.00	56.74	H
ATOM	14337	CB	THR	H	245	97.297	126.693	128.409	1.00	58.77	H
ATOM	14338	OG1	THR	H	245	98.118	126.649	127.235	1.00	61.20	H
ATOM	14339	CG2	THR	H	245	96.532	128.014	128.431	1.00	55.41	H
ATOM	14340	C	THR	H	245	98.632	125.148	129.896	1.00	55.52	H
ATOM	14341	O	THR	H	245	97.883	124.322	130.419	1.00	58.70	H
ATOM	14342	N	SER	H	246	99.865	124.856	129.499	1.00	55.57	H
ATOM	14343	CA	SER	H	246	100.414	123.519	129.694	1.00	54.52	H
ATOM	14344	CB	SER	H	246	101.438	123.185	128.613	1.00	54.23	H
ATOM	14345	OG	SER	H	246	100.948	123.509	127.329	1.00	63.62	H
ATOM	14346	C	SER	H	246	101.110	123.536	131.049	1.00	51.06	H
ATOM	14347	O	SER	H	246	101.975	124.387	131.294	1.00	49.39	H
ATOM	14348	N	ALA	H	247	100.723	122.612	131.922	1.00	46.23	H
ATOM	14349	CA	ALA	H	247	101.315	122.505	133.245	1.00	46.30	H
ATOM	14350	CB	ALA	H	247	100.736	121.315	133.964	1.00	46.24	H
ATOM	14351	C	ALA	H	247	102.843	122.385	133.196	1.00	47.71	H
ATOM	14352	O	ALA	H	247	103.419	121.833	132.258	1.00	50.74	H
ATOM	14353	N	VAL	H	248	103.493	122.923	134.215	1.00	44.90	H
ATOM	14354	CA	VAL	H	248	104.934	122.873	134.311	1.00	42.82	H
ATOM	14355	CB	VAL	H	248	105.552	124.279	134.328	1.00	45.22	H
ATOM	14356	CG1	VAL	H	248	107.025	124.197	134.686	1.00	37.95	H
ATOM	14357	CG2	VAL	H	248	105.371	124.938	132.983	1.00	39.82	H
ATOM	14358	C	VAL	H	248	105.260	122.191	135.617	1.00	44.31	H
ATOM	14359	O	VAL	H	248	104.799	122.611	136.679	1.00	45.10	H
ATOM	14360	N	SER	H	249	106.050	121.129	135.528	1.00	45.72	H
ATOM	14361	CA	SER	H	249	106.464	120.361	136.695	1.00	41.90	H
ATOM	14362	CB	SER	H	249	106.882	118.959	136.257	1.00	37.04	H
ATOM	14363	OG	SER	H	249	107.155	118.133	137.366	1.00	44.04	H
ATOM	14364	C	SER	H	249	107.644	121.071	137.332	1.00	40.43	H
ATOM	14365	O	SER	H	249	108.573	121.464	136.631	1.00	36.04	H
ATOM	14366	N	LEU	H	250	107.611	121.259	138.650	1.00	43.05	H
ATOM	14367	CA	LEU	H	250	108.744	121.911	139.322	1.00	44.63	H
ATOM	14368	CB	LEU	H	250	108.372	122.362	140.740	1.00	46.41	H
ATOM	14369	CG	LEU	H	250	107.156	123.272	140.937	1.00	49.17	H
ATOM	14370	CD1	LEU	H	250	107.192	123.821	142.366	1.00	45.92	H
ATOM	14371	CD2	LEU	H	250	107.166	124.404	139.921	1.00	41.47	H
ATOM	14372	C	LEU	H	250	109.907	120.917	139.398	1.00	42.54	H
ATOM	14373	O	LEU	H	250	111.039	121.297	139.686	1.00	38.72	H
ATOM	14374	N	GLY	H	251	109.605	119.646	139.124	1.00	37.11	H
ATOM	14375	CA	GLY	H	251	110.614	118.612	139.166	1.00	39.12	H
ATOM	14376	C	GLY	H	251	111.211	118.463	140.551	1.00	41.46	H
ATOM	14377	O	GLY	H	251	112.438	118.459	140.720	1.00	44.29	H
ATOM	14378	N	LEU	H	252	110.336	118.331	141.539	1.00	36.58	H
ATOM	14379	CA	LEU	H	252	110.750	118.209	142.918	1.00	36.90	H
ATOM	14380	CB	LEU	H	252	109.731	118.892	143.835	1.00	34.52	H
ATOM	14381	CG	LEU	H	252	109.535	120.399	143.714	1.00	34.44	H
ATOM	14382	CD1	LEU	H	252	108.371	120.810	144.592	1.00	29.08	H
ATOM	14383	CD2	LEU	H	252	110.805	121.117	144.108	1.00	29.30	H
ATOM	14384	C	LEU	H	252	110.904	116.776	143.385	1.00	37.86	H
ATOM	14385	O	LEU	H	252	110.192	115.886	142.943	1.00	42.71	H
ATOM	14386	N	THR	H	253	111.843	116.566	144.293	1.00	35.69	H
ATOM	14387	CA	THR	H	253	112.060	115.260	144.892	1.00	34.52	H
ATOM	14388	CB	THR	H	253	113.269	114.542	144.298	1.00	34.33	H
ATOM	14389	OG1	THR	H	253	112.880	113.877	143.095	1.00	41.34	H
ATOM	14390	CG2	THR	H	253	113.823	113.536	145.280	1.00	21.10	H
ATOM	14391	C	THR	H	253	112.341	115.489	146.360	1.00	36.25	H
ATOM	14392	O	THR	H	253	113.094	116.409	146.720	1.00	35.28	H
ATOM	14393	N	ALA	H	254	111.720	114.669	147.202	1.00	33.70	H

ATOM	14394	CA	ALA	H	254	111.952	114.760	148.636	1.00	34.92	H
ATOM	14395	CB	ALA	H	254	110.709	114.301	149.414	1.00	28.52	H
ATOM	14396	C	ALA	H	254	113.151	113.845	148.934	1.00	38.24	H
ATOM	14397	O	ALA	H	254	113.234	112.713	148.443	1.00	39.37	H
ATOM	14398	N	ASN	H	255	114.082	114.347	149.730	1.00	38.96	H
ATOM	14399	CA	ASN	H	255	115.276	113.594	150.087	1.00	37.07	H
ATOM	14400	CB	ASN	H	255	116.506	114.228	149.448	1.00	33.01	H
ATOM	14401	CG	ASN	H	255	116.399	114.331	147.965	1.00	31.08	H
ATOM	14402	OD1	ASN	H	255	116.899	113.484	147.246	1.00	39.97	H
ATOM	14403	ND2	ASN	H	255	115.749	115.376	147.490	1.00	41.71	H
ATOM	14404	C	ASN	H	255	115.490	113.655	151.577	1.00	36.60	H
ATOM	14405	O	ASN	H	255	115.138	114.647	152.209	1.00	40.78	H
ATOM	14406	N	TYR	H	256	116.069	112.605	152.145	1.00	36.59	H
ATOM	14407	CA	TYR	H	256	116.407	112.646	153.565	1.00	34.57	H
ATOM	14408	CB	TYR	H	256	116.415	111.258	154.203	1.00	31.19	H
ATOM	14409	CG	TYR	H	256	115.081	110.564	154.319	1.00	29.49	H
ATOM	14410	CD1	TYR	H	256	114.730	109.534	153.439	1.00	28.40	H
ATOM	14411	CE1	TYR	H	256	113.543	108.819	153.591	1.00	33.13	H
ATOM	14412	CD2	TYR	H	256	114.204	110.874	155.351	1.00	29.30	H
ATOM	14413	CE2	TYR	H	256	113.008	110.172	155.516	1.00	34.35	H
ATOM	14414	CZ	TYR	H	256	112.682	109.142	154.638	1.00	38.46	H
ATOM	14415	OH	TYR	H	256	111.510	108.432	154.809	1.00	32.82	H
ATOM	14416	C	TYR	H	256	117.836	113.202	153.613	1.00	34.08	H
ATOM	14417	O	TYR	H	256	118.670	112.871	152.766	1.00	35.37	H
ATOM	14418	N	ALA	H	257	118.104	114.075	154.572	1.00	34.43	H
ATOM	14419	CA	ALA	H	257	119.437	114.632	154.743	1.00	34.90	H
ATOM	14420	CB	ALA	H	257	119.457	116.087	154.367	1.00	37.39	H
ATOM	14421	C	ALA	H	257	119.730	114.469	156.222	1.00	40.66	H
ATOM	14422	O	ALA	H	257	118.811	114.354	157.035	1.00	41.23	H
ATOM	14423	N	ARG	H	258	120.999	114.444	156.585	1.00	46.20	H
ATOM	14424	CA	ARG	H	258	121.336	114.284	157.992	1.00	50.56	H
ATOM	14425	CB	ARG	H	258	122.561	113.381	158.152	1.00	55.62	H
ATOM	14426	CG	ARG	H	258	122.356	111.936	157.751	1.00	52.75	H
ATOM	14427	CD	ARG	H	258	123.668	111.203	157.857	1.00	65.39	H
ATOM	14428	NE	ARG	H	258	124.193	111.255	159.220	1.00	77.10	H
ATOM	14429	CZ	ARG	H	258	125.465	111.032	159.540	1.00	81.34	H
ATOM	14430	NH1	ARG	H	258	126.345	110.747	158.589	1.00	87.13	H
ATOM	14431	NH2	ARG	H	258	125.856	111.081	160.807	1.00	81.95	H
ATOM	14432	C	ARG	H	258	121.611	115.633	158.631	1.00	50.72	H
ATOM	14433	O	ARG	H	258	122.351	116.462	158.080	1.00	50.72	H
ATOM	14434	N	THR	H	259	121.018	115.832	159.801	1.00	50.97	H
ATOM	14435	CA	THR	H	259	121.164	117.067	160.555	1.00	53.32	H
ATOM	14436	CB	THR	H	259	119.919	117.341	161.376	1.00	54.13	H
ATOM	14437	OG1	THR	H	259	119.561	116.158	162.098	1.00	57.38	H
ATOM	14438	CG2	THR	H	259	118.773	117.747	160.478	1.00	59.61	H
ATOM	14439	C	THR	H	259	122.326	116.978	161.513	1.00	56.37	H
ATOM	14440	O	THR	H	259	123.434	117.416	161.205	1.00	54.45	H
ATOM	14441	N	GLY	H	260	122.049	116.396	162.679	1.00	61.84	H
ATOM	14442	CA	GLY	H	260	123.051	116.232	163.716	1.00	64.80	H
ATOM	14443	C	GLY	H	260	124.095	115.185	163.395	1.00	65.54	H
ATOM	14444	O	GLY	H	260	124.878	115.354	162.461	1.00	62.19	H
ATOM	14445	N	GLY	H	261	124.114	114.103	164.169	1.00	71.40	H
ATOM	14446	CA	GLY	H	261	125.094	113.049	163.937	1.00	75.43	H
ATOM	14447	C	GLY	H	261	124.503	111.646	163.894	1.00	78.17	H
ATOM	14448	O	GLY	H	261	124.266	111.092	162.820	1.00	80.30	H
ATOM	14449	N	GLN	H	262	124.258	111.068	165.062	1.00	78.47	H
ATOM	14450	CA	GLN	H	262	123.698	109.727	165.144	1.00	78.51	H
ATOM	14451	CB	GLN	H	262	123.731	109.247	166.596	1.00	86.27	H

ATOM	14452	CG	GLN	H	262	123.662	107.739	166.800	1.00	93.17	H
ATOM	14453	CD	GLN	H	262	124.978	107.058	166.479	1.00	98.18	H
ATOM	14454	OE1	GLN	H	262	125.325	106.036	167.080	1.00	101.87	H
ATOM	14455	NE2	GLN	H	262	125.718	107.616	165.518	1.00	100.89	H
ATOM	14456	C	GLN	H	262	122.256	109.702	164.647	1.00	73.55	H
ATOM	14457	O	GLN	H	262	121.387	110.372	165.208	1.00	73.90	H
ATOM	14458	N	VAL	H	263	122.006	108.933	163.595	1.00	67.84	H
ATOM	14459	CA	VAL	H	263	120.656	108.815	163.069	1.00	64.60	H
ATOM	14460	CB	VAL	H	263	120.674	108.339	161.613	1.00	61.64	H
ATOM	14461	CG1	VAL	H	263	119.259	108.130	161.121	1.00	61.83	H
ATOM	14462	CG2	VAL	H	263	121.400	109.351	160.741	1.00	55.79	H
ATOM	14463	C	VAL	H	263	119.941	107.793	163.944	1.00	64.07	H
ATOM	14464	O	VAL	H	263	120.564	106.880	164.456	1.00	67.31	H
ATOM	14465	N	THR	H	264	118.638	107.929	164.111	1.00	62.80	H
ATOM	14466	CA	THR	H	264	117.919	107.011	164.977	1.00	63.54	H
ATOM	14467	CB	THR	H	264	117.750	107.672	166.326	1.00	61.10	H
ATOM	14468	OG1	THR	H	264	119.043	108.057	166.805	1.00	60.00	H
ATOM	14469	CG2	THR	H	264	117.072	106.754	167.307	1.00	54.31	H
ATOM	14470	C	THR	H	264	116.559	106.596	164.434	1.00	69.00	H
ATOM	14471	O	THR	H	264	115.868	107.387	163.800	1.00	72.97	H
ATOM	14472	N	ALA	H	265	116.174	105.352	164.691	1.00	71.82	H
ATOM	14473	CA	ALA	H	265	114.899	104.830	164.208	1.00	73.97	H
ATOM	14474	CB	ALA	H	265	114.730	103.382	164.638	1.00	76.91	H
ATOM	14475	C	ALA	H	265	113.705	105.644	164.679	1.00	73.64	H
ATOM	14476	O	ALA	H	265	113.769	106.331	165.699	1.00	73.35	H
ATOM	14477	N	GLY	H	266	112.615	105.550	163.922	1.00	74.63	H
ATOM	14478	CA	GLY	H	266	111.397	106.270	164.253	1.00	73.88	H
ATOM	14479	C	GLY	H	266	110.782	106.951	163.047	1.00	72.19	H
ATOM	14480	O	GLY	H	266	111.239	106.771	161.918	1.00	71.81	H
ATOM	14481	N	ASN	H	267	109.741	107.741	163.281	1.00	72.01	H
ATOM	14482	CA	ASN	H	267	109.080	108.453	162.193	1.00	71.42	H
ATOM	14483	CB	ASN	H	267	107.606	108.686	162.519	1.00	75.45	H
ATOM	14484	CG	ASN	H	267	106.773	107.440	162.341	1.00	83.23	H
ATOM	14485	OD1	ASN	H	267	105.552	107.462	162.513	1.00	86.63	H
ATOM	14486	ND2	ASN	H	267	107.428	106.338	161.986	1.00	84.24	H
ATOM	14487	C	ASN	H	267	109.733	109.792	161.853	1.00	67.60	H
ATOM	14488	O	ASN	H	267	110.372	110.431	162.695	1.00	63.03	H
ATOM	14489	N	VAL	H	268	109.576	110.191	160.597	1.00	63.29	H
ATOM	14490	CA	VAL	H	268	110.113	111.442	160.103	1.00	61.13	H
ATOM	14491	CB	VAL	H	268	111.311	111.215	159.164	1.00	61.84	H
ATOM	14492	CG1	VAL	H	268	111.812	112.545	158.628	1.00	61.50	H
ATOM	14493	CG2	VAL	H	268	112.422	110.508	159.910	1.00	63.86	H
ATOM	14494	C	VAL	H	268	108.997	112.118	159.329	1.00	61.27	H
ATOM	14495	O	VAL	H	268	108.594	111.655	158.261	1.00	61.18	H
ATOM	14496	N	GLN	H	269	108.477	113.199	159.890	1.00	60.74	H
ATOM	14497	CA	GLN	H	269	107.407	113.941	159.245	1.00	64.88	H
ATOM	14498	CB	GLN	H	269	106.117	113.812	160.058	1.00	65.81	H
ATOM	14499	CG	GLN	H	269	105.365	112.501	159.848	1.00	68.51	H
ATOM	14500	CD	GLN	H	269	104.237	112.308	160.850	1.00	73.00	H
ATOM	14501	OE1	GLN	H	269	103.440	113.217	161.087	1.00	77.55	H
ATOM	14502	NE2	GLN	H	269	104.162	111.118	161.439	1.00	74.38	H
ATOM	14503	C	GLN	H	269	107.799	115.409	159.090	1.00	67.26	H
ATOM	14504	O	GLN	H	269	108.611	115.933	159.860	1.00	69.58	H
ATOM	14505	N	SER	H	270	107.243	116.073	158.082	1.00	66.78	H
ATOM	14506	CA	SER	H	270	107.569	117.476	157.869	1.00	63.91	H
ATOM	14507	CB	SER	H	270	108.964	117.607	157.270	1.00	66.21	H
ATOM	14508	OG	SER	H	270	109.295	118.977	157.119	1.00	74.26	H
ATOM	14509	C	SER	H	270	106.584	118.258	157.012	1.00	60.61	H

ATOM	14510	O	SER	H	270	105.944	117.720	156.099	1.00	62.39	H
ATOM	14511	N	ILE	H	271	106.476	119.545	157.327	1.00	57.13	H
ATOM	14512	CA	ILE	H	271	105.584	120.470	156.630	1.00	52.37	H
ATOM	14513	CB	ILE	H	271	104.542	121.015	157.594	1.00	55.44	H
ATOM	14514	CG2	ILE	H	271	103.355	120.047	157.662	1.00	58.07	H
ATOM	14515	CG1	ILE	H	271	105.199	121.243	158.961	1.00	54.95	H
ATOM	14516	CD1	ILE	H	271	104.220	121.426	160.117	1.00	63.85	H
ATOM	14517	C	ILE	H	271	106.399	121.613	156.038	1.00	46.22	H
ATOM	14518	O	ILE	H	271	107.129	122.305	156.741	1.00	46.60	H
ATOM	14519	N	ILE	H	272	106.281	121.783	154.728	1.00	40.38	H
ATOM	14520	CA	ILE	H	272	107.020	122.802	154.007	1.00	36.09	H
ATOM	14521	CB	ILE	H	272	107.971	122.156	152.975	1.00	36.23	H
ATOM	14522	CG2	ILE	H	272	108.774	123.219	152.253	1.00	36.01	H
ATOM	14523	CG1	ILE	H	272	108.930	121.198	153.685	1.00	47.24	H
ATOM	14524	CD1	ILE	H	272	109.835	120.419	152.740	1.00	48.56	H
ATOM	14525	C	ILE	H	272	106.087	123.737	153.259	1.00	34.87	H
ATOM	14526	O	ILE	H	272	105.078	123.325	152.697	1.00	33.59	H
ATOM	14527	N	GLY	H	273	106.428	125.010	153.244	1.00	31.87	H
ATOM	14528	CA	GLY	H	273	105.599	125.933	152.519	1.00	33.66	H
ATOM	14529	C	GLY	H	273	106.232	126.207	151.179	1.00	36.65	H
ATOM	14530	O	GLY	H	273	107.453	126.388	151.085	1.00	34.58	H
ATOM	14531	N	VAL	H	274	105.406	126.195	150.136	1.00	36.88	H
ATOM	14532	CA	VAL	H	274	105.880	126.505	148.798	1.00	33.67	H
ATOM	14533	CB	VAL	H	274	105.550	125.392	147.781	1.00	35.52	H
ATOM	14534	CG1	VAL	H	274	106.387	125.596	146.516	1.00	34.19	H
ATOM	14535	CG2	VAL	H	274	105.841	124.024	148.374	1.00	32.27	H
ATOM	14536	C	VAL	H	274	105.131	127.778	148.425	1.00	33.26	H
ATOM	14537	O	VAL	H	274	103.907	127.783	148.333	1.00	30.29	H
ATOM	14538	N	THR	H	275	105.876	128.863	148.244	1.00	34.65	H
ATOM	14539	CA	THR	H	275	105.290	130.153	147.917	1.00	36.05	H
ATOM	14540	CB	THR	H	275	105.817	131.248	148.874	1.00	38.07	H
ATOM	14541	OG1	THR	H	275	105.319	130.999	150.189	1.00	45.22	H
ATOM	14542	CG2	THR	H	275	105.379	132.644	148.419	1.00	41.50	H
ATOM	14543	C	THR	H	275	105.561	130.601	146.491	1.00	35.15	H
ATOM	14544	O	THR	H	275	106.695	130.917	146.139	1.00	35.65	H
ATOM	14545	N	PHE	H	276	104.506	130.642	145.684	1.00	33.20	H
ATOM	14546	CA	PHE	H	276	104.609	131.089	144.306	1.00	31.57	H
ATOM	14547	CB	PHE	H	276	103.497	130.461	143.455	1.00	27.75	H
ATOM	14548	CG	PHE	H	276	103.695	129.006	143.195	1.00	30.27	H
ATOM	14549	CD1	PHE	H	276	103.302	128.058	144.127	1.00	29.25	H
ATOM	14550	CD2	PHE	H	276	104.346	128.580	142.034	1.00	34.91	H
ATOM	14551	CE1	PHE	H	276	103.557	126.696	143.908	1.00	34.89	H
ATOM	14552	CE2	PHE	H	276	104.607	127.215	141.804	1.00	29.12	H
ATOM	14553	CZ	PHE	H	276	104.212	126.277	142.743	1.00	30.64	H
ATOM	14554	C	PHE	H	276	104.515	132.618	144.257	1.00	30.07	H
ATOM	14555	O	PHE	H	276	103.539	133.205	144.713	1.00	28.25	H
ATOM	14556	N	VAL	H	277	105.537	133.258	143.703	1.00	29.66	H
ATOM	14557	CA	VAL	H	277	105.550	134.704	143.619	1.00	31.37	H
ATOM	14558	CB	VAL	H	277	106.932	135.263	143.914	1.00	33.50	H
ATOM	14559	CG1	VAL	H	277	106.849	136.759	144.015	1.00	32.18	H
ATOM	14560	CG2	VAL	H	277	107.473	134.656	145.197	1.00	31.37	H
ATOM	14561	C	VAL	H	277	105.135	135.179	142.247	1.00	32.09	H
ATOM	14562	O	VAL	H	277	105.702	134.758	141.247	1.00	33.35	H
ATOM	14563	N	TYR	H	278	104.145	136.067	142.219	1.00	29.80	H
ATOM	14564	CA	TYR	H	278	103.609	136.607	140.983	1.00	25.44	H
ATOM	14565	CB	TYR	H	278	102.107	136.783	141.093	1.00	23.27	H
ATOM	14566	CG	TYR	H	278	101.379	135.478	141.159	1.00	22.36	H
ATOM	14567	CD1	TYR	H	278	101.397	134.718	142.320	1.00	18.46	H

ATOM	14568	CE1	TYR	H	278	100.730	133.475	142.386	1.00	20.90	H
ATOM	14569	CD2	TYR	H	278	100.681	134.984	140.048	1.00	19.15	H
ATOM	14570	CE2	TYR	H	278	100.015	133.756	140.100	1.00	25.32	H
ATOM	14571	CZ	TYR	H	278	100.043	133.002	141.282	1.00	25.43	H
ATOM	14572	OH	TYR	H	278	99.369	131.797	141.373	1.00	27.70	H
ATOM	14573	C	TYR	H	278	104.202	137.920	140.572	1.00	27.84	H
ATOM	14574	O	TYR	H	278	104.335	138.835	141.384	1.00	26.67	H
ATOM	14575	N	GLN	H	279	104.547	138.017	139.292	1.00	29.94	H
ATOM	14576	CA	GLN	H	279	105.126	139.249	138.767	1.00	30.51	H
ATOM	14577	CB	GLN	H	279	105.877	138.967	137.472	1.00	23.99	H
ATOM	14578	CG	GLN	H	279	106.568	140.198	136.921	1.00	29.37	H
ATOM	14579	CD	GLN	H	279	107.128	140.015	135.513	1.00	38.73	H
ATOM	14580	OE1	GLN	H	279	107.988	140.797	135.090	1.00	43.25	H
ATOM	14581	NE2	GLN	H	279	106.631	139.004	134.770	1.00	30.63	H
ATOM	14582	C	GLN	H	279	104.078	140.364	138.541	1.00	31.35	H
ATOM	14583	O	GLN	H	279	104.388	141.527	138.865	1.00	33.30	H
ATOM	14584	OXT	GLN	H	279	102.963	140.083	138.043	1.00	29.80	H
ATOM	14585	C	GLY	I	1	1.928	128.848	197.315	1.00	143.79	I
ATOM	14586	O	GLY	I	1	2.468	129.451	196.391	1.00	143.91	I
ATOM	14587	N	GLY	I	1	-0.177	128.122	198.459	1.00	142.49	I
ATOM	14588	CA	GLY	I	1	0.530	128.283	197.155	1.00	143.30	I
ATOM	14589	N	VAL	I	2	2.516	128.653	198.492	1.00	144.53	I
ATOM	14590	CA	VAL	I	2	3.860	129.147	198.780	1.00	145.01	I
ATOM	14591	CB	VAL	I	2	4.248	128.846	200.254	1.00	144.92	I
ATOM	14592	CG1	VAL	I	2	5.552	129.544	200.606	1.00	145.32	I
ATOM	14593	CG2	VAL	I	2	3.131	129.292	201.189	1.00	143.17	I
ATOM	14594	C	VAL	I	2	4.896	128.513	197.840	1.00	145.86	I
ATOM	14595	O	VAL	I	2	4.691	127.408	197.331	1.00	146.45	I
ATOM	14596	N	ALA	I	3	5.997	129.224	197.604	1.00	146.12	I
ATOM	14597	CA	ALA	I	3	7.068	128.739	196.731	1.00	146.79	I
ATOM	14598	CB	ALA	I	3	6.667	128.890	195.275	1.00	146.08	I
ATOM	14599	C	ALA	I	3	8.372	129.493	196.993	1.00	147.15	I
ATOM	14600	O	ALA	I	3	8.395	130.724	197.030	1.00	146.81	I
ATOM	14601	N	LEU	I	4	9.460	128.748	197.168	1.00	147.90	I
ATOM	14602	CA	LEU	I	4	10.761	129.347	197.443	1.00	148.30	I
ATOM	14603	CB	LEU	I	4	11.726	128.299	198.004	1.00	148.78	I
ATOM	14604	CG	LEU	I	4	11.397	127.744	199.396	1.00	150.03	I
ATOM	14605	CD1	LEU	I	4	12.464	126.741	199.806	1.00	151.55	I
ATOM	14606	CD2	LEU	I	4	11.325	128.877	200.412	1.00	148.53	I
ATOM	14607	C	LEU	I	4	11.381	130.003	196.225	1.00	148.23	I
ATOM	14608	O	LEU	I	4	11.218	129.538	195.101	1.00	147.06	I
ATOM	14609	N	GLY	I	5	12.098	131.094	196.466	1.00	148.93	I
ATOM	14610	CA	GLY	I	5	12.739	131.812	195.385	1.00	149.81	I
ATOM	14611	C	GLY	I	5	13.879	131.032	194.766	1.00	150.53	I
ATOM	14612	O	GLY	I	5	14.328	131.363	193.669	1.00	150.86	I
ATOM	14613	N	ALA	I	6	14.349	129.995	195.455	1.00	150.77	I
ATOM	14614	CA	ALA	I	6	15.453	129.195	194.934	1.00	150.75	I
ATOM	14615	CB	ALA	I	6	16.762	129.639	195.570	1.00	150.69	I
ATOM	14616	C	ALA	I	6	15.286	127.691	195.105	1.00	150.31	I
ATOM	14617	O	ALA	I	6	14.586	127.219	196.002	1.00	149.62	I
ATOM	14618	N	THR	I	7	15.959	126.952	194.230	1.00	149.83	I
ATOM	14619	CA	THR	I	7	15.930	125.499	194.237	1.00	149.06	I
ATOM	14620	CB	THR	I	7	15.978	124.954	192.797	1.00	148.42	I
ATOM	14621	OG1	THR	I	7	17.136	125.470	192.123	1.00	146.61	I
ATOM	14622	CG2	THR	I	7	14.734	125.376	192.036	1.00	148.31	I
ATOM	14623	C	THR	I	7	17.122	124.947	195.019	1.00	149.16	I
ATOM	14624	O	THR	I	7	17.203	123.745	195.286	1.00	149.64	I
ATOM	14625	N	ARG	I	8	18.048	125.833	195.375	1.00	148.18	I

ATOM	14626	CA	ARG	I	8	19.237	125.449	196.128	1.00146.58	I
ATOM	14627	CB	ARG	I	8	20.239	124.731	195.229	1.00144.31	I
ATOM	14628	CG	ARG	I	8	20.870	125.625	194.179	1.00141.65	I
ATOM	14629	CD	ARG	I	8	20.320	125.364	192.781	1.00141.30	I
ATOM	14630	NE	ARG	I	8	20.799	124.103	192.213	1.00139.37	I
ATOM	14631	CZ	ARG	I	8	20.297	122.905	192.501	1.00140.46	I
ATOM	14632	NH1	ARG	I	8	20.809	121.823	191.931	1.00141.21	I
ATOM	14633	NH2	ARG	I	8	19.274	122.785	193.342	1.00139.65	I
ATOM	14634	C	ARG	I	8	19.902	126.692	196.702	1.00146.98	I
ATOM	14635	O	ARG	I	8	19.676	127.802	196.222	1.00147.00	I
ATOM	14636	N	VAL	I	9	20.732	126.498	197.724	1.00147.88	I
ATOM	14637	CA	VAL	I	9	21.438	127.602	198.369	1.00147.93	I
ATOM	14638	CB	VAL	I	9	20.810	127.946	199.746	1.00146.59	I
ATOM	14639	CG1	VAL	I	9	21.480	129.180	200.331	1.00144.24	I
ATOM	14640	CG2	VAL	I	9	19.313	128.165	199.597	1.00146.02	I
ATOM	14641	C	VAL	I	9	22.917	127.262	198.582	1.00149.44	I
ATOM	14642	O	VAL	I	9	23.259	126.149	198.992	1.00149.26	I
ATOM	14643	N	ILE	I	10	23.787	128.226	198.296	1.00151.20	I
ATOM	14644	CA	ILE	I	10	25.228	128.053	198.471	1.00152.52	I
ATOM	14645	CB	ILE	I	10	26.006	128.463	197.200	1.00149.76	I
ATOM	14646	CG2	ILE	I	10	27.500	128.295	197.427	1.00148.55	I
ATOM	14647	CG1	ILE	I	10	25.556	127.610	196.012	1.00147.85	I
ATOM	14648	CD1	ILE	I	10	25.834	126.126	196.174	1.00146.42	I
ATOM	14649	C	ILE	I	10	25.664	128.946	199.627	1.00154.90	I
ATOM	14650	O	ILE	I	10	25.577	130.172	199.537	1.00155.03	I
ATOM	14651	N	TYR	I	11	26.123	128.332	200.714	1.00157.16	I
ATOM	14652	CA	TYR	I	11	26.552	129.094	201.881	1.00159.68	I
ATOM	14653	CB	TYR	I	11	26.122	128.394	203.173	1.00160.31	I
ATOM	14654	CG	TYR	I	11	26.027	129.344	204.341	1.00160.80	I
ATOM	14655	CD1	TYR	I	11	24.851	130.052	204.586	1.00161.17	I
ATOM	14656	CE1	TYR	I	11	24.770	130.985	205.610	1.00161.31	I
ATOM	14657	CD2	TYR	I	11	27.129	129.590	205.158	1.00160.42	I
ATOM	14658	CE2	TYR	I	11	27.061	130.525	206.187	1.00161.17	I
ATOM	14659	CZ	TYR	I	11	25.875	131.220	206.406	1.00161.31	I
ATOM	14660	OH	TYR	I	11	25.790	132.157	207.410	1.00161.84	I
ATOM	14661	C	TYR	I	11	28.064	129.296	201.909	1.00160.89	I
ATOM	14662	O	TYR	I	11	28.803	128.444	202.404	1.00160.37	I
ATOM	14663	N	PRO	I	12	28.543	130.436	201.385	1.00162.22	I
ATOM	14664	CD	PRO	I	12	27.801	131.557	200.782	1.00162.76	I
ATOM	14665	CA	PRO	I	12	29.984	130.702	201.376	1.00162.92	I
ATOM	14666	CB	PRO	I	12	30.074	132.109	200.785	1.00162.76	I
ATOM	14667	CG	PRO	I	12	28.852	132.197	199.919	1.00162.66	I
ATOM	14668	C	PRO	I	12	30.544	130.634	202.792	1.00163.78	I
ATOM	14669	O	PRO	I	12	30.013	131.264	203.705	1.00164.25	I
ATOM	14670	N	ALA	I	13	31.607	129.857	202.974	1.00164.50	I
ATOM	14671	CA	ALA	I	13	32.228	129.726	204.284	1.00164.96	I
ATOM	14672	CB	ALA	I	13	33.361	128.714	204.229	1.00164.37	I
ATOM	14673	C	ALA	I	13	32.755	131.091	204.704	1.00165.73	I
ATOM	14674	O	ALA	I	13	33.606	131.672	204.030	1.00165.60	I
ATOM	14675	N	GLY	I	14	32.238	131.601	205.817	1.00166.91	I
ATOM	14676	CA	GLY	I	14	32.658	132.903	206.299	1.00168.42	I
ATOM	14677	C	GLY	I	14	31.496	133.878	206.326	1.00169.54	I
ATOM	14678	O	GLY	I	14	31.455	134.784	207.158	1.00169.68	I
ATOM	14679	N	GLN	I	15	30.549	133.694	205.410	1.00170.52	I
ATOM	14680	CA	GLN	I	15	29.374	134.557	205.325	1.00171.66	I
ATOM	14681	CB	GLN	I	15	28.444	134.078	204.208	1.00172.46	I
ATOM	14682	CG	GLN	I	15	29.006	134.256	202.810	1.00173.65	I
ATOM	14683	CD	GLN	I	15	29.002	135.700	202.354	1.00174.44	I

ATOM	14684	OE1	GLN	I	15	29.519	136.583	203.039	1.00174.03	I
ATOM	14685	NE2	GLN	I	15	28.419	135.949	201.186	1.00175.28	I
ATOM	14686	C	GLN	I	15	28.613	134.557	206.644	1.00172.30	I
ATOM	14687	O	GLN	I	15	28.340	133.501	207.214	1.00173.11	I
ATOM	14688	N	LYS	I	16	28.274	135.746	207.126	1.00172.01	I
ATOM	14689	CA	LYS	I	16	27.541	135.874	208.375	1.00171.18	I
ATOM	14690	CB	LYS	I	16	27.450	137.344	208.785	1.00171.04	I
ATOM	14691	CG	LYS	I	16	26.899	137.572	210.182	1.00170.08	I
ATOM	14692	CD	LYS	I	16	26.669	139.056	210.447	1.00169.85	I
ATOM	14693	CE	LYS	I	16	27.917	139.886	210.145	1.00169.45	I
ATOM	14694	NZ	LYS	I	16	29.111	139.426	210.919	1.00168.34	I
ATOM	14695	C	LYS	I	16	26.139	135.306	208.192	1.00170.56	I
ATOM	14696	O	LYS	I	16	25.582	134.693	209.105	1.00170.61	I
ATOM	14697	N	GLN	I	17	25.580	135.505	207.001	1.00169.45	I
ATOM	14698	CA	GLN	I	17	24.239	135.025	206.700	1.00168.73	I
ATOM	14699	CB	GLN	I	17	23.210	135.840	207.487	1.00167.77	I
ATOM	14700	CG	GLN	I	17	23.306	137.340	207.246	1.00165.44	I
ATOM	14701	CD	GLN	I	17	22.034	138.081	207.620	1.00164.84	I
ATOM	14702	OE1	GLN	I	17	21.553	137.991	208.751	1.00164.66	I
ATOM	14703	NE2	GLN	I	17	21.484	138.822	206.666	1.00163.88	I
ATOM	14704	C	GLN	I	17	23.881	135.088	205.216	1.00168.75	I
ATOM	14705	O	GLN	I	17	24.271	136.018	204.510	1.00169.17	I
ATOM	14706	N	VAL	I	18	23.131	134.087	204.758	1.00168.24	I
ATOM	14707	CA	VAL	I	18	22.662	134.009	203.375	1.00167.19	I
ATOM	14708	CB	VAL	I	18	23.084	132.683	202.705	1.00166.22	I
ATOM	14709	CG1	VAL	I	18	22.434	132.556	201.338	1.00165.14	I
ATOM	14710	CG2	VAL	I	18	24.595	132.633	202.571	1.00165.75	I
ATOM	14711	C	VAL	I	18	21.138	134.071	203.453	1.00167.29	I
ATOM	14712	O	VAL	I	18	20.541	133.436	204.321	1.00167.50	I
ATOM	14713	N	GLN	I	19	20.504	134.830	202.563	1.00167.20	I
ATOM	14714	CA	GLN	I	19	19.049	134.949	202.604	1.00167.38	I
ATOM	14715	CB	GLN	I	19	18.649	136.393	202.931	1.00167.76	I
ATOM	14716	CG	GLN	I	19	19.103	137.431	201.922	1.00169.06	I
ATOM	14717	CD	GLN	I	19	18.813	138.852	202.381	1.00169.44	I
ATOM	14718	OE1	GLN	I	19	19.330	139.302	203.405	1.00169.92	I
ATOM	14719	NE2	GLN	I	19	17.983	139.565	201.624	1.00167.84	I
ATOM	14720	C	GLN	I	19	18.307	134.481	201.357	1.00167.41	I
ATOM	14721	O	GLN	I	19	18.702	134.771	200.227	1.00167.11	I
ATOM	14722	N	LEU	I	20	17.218	133.752	201.589	1.00167.71	I
ATOM	14723	CA	LEU	I	20	16.376	133.214	200.527	1.00167.86	I
ATOM	14724	CB	LEU	I	20	16.089	131.732	200.799	1.00168.54	I
ATOM	14725	CG	LEU	I	20	15.339	130.900	199.751	1.00168.60	I
ATOM	14726	CD1	LEU	I	20	16.108	130.908	198.446	1.00168.74	I
ATOM	14727	CD2	LEU	I	20	15.168	129.472	200.254	1.00168.92	I
ATOM	14728	C	LEU	I	20	15.066	134.008	200.477	1.00167.81	I
ATOM	14729	O	LEU	I	20	14.772	134.785	201.386	1.00167.16	I
ATOM	14730	N	ALA	I	21	14.282	133.806	199.420	1.00167.92	I
ATOM	14731	CA	ALA	I	21	13.019	134.523	199.256	1.00167.48	I
ATOM	14732	CB	ALA	I	21	13.033	135.288	197.936	1.00167.71	I
ATOM	14733	C	ALA	I	21	11.790	133.619	199.318	1.00166.90	I
ATOM	14734	O	ALA	I	21	11.742	132.574	198.668	1.00167.00	I
ATOM	14735	N	VAL	I	22	10.794	134.038	200.097	1.00166.12	I
ATOM	14736	CA	VAL	I	22	9.553	133.280	200.253	1.00165.31	I
ATOM	14737	CB	VAL	I	22	9.245	133.000	201.736	1.00164.82	I
ATOM	14738	CG1	VAL	I	22	8.352	131.778	201.853	1.00164.15	I
ATOM	14739	CG2	VAL	I	22	10.531	132.814	202.509	1.00164.03	I
ATOM	14740	C	VAL	I	22	8.382	134.076	199.681	1.00165.27	I
ATOM	14741	O	VAL	I	22	8.175	135.232	200.049	1.00165.48	I

ATOM	14742	N	THR	I	23	7.608	133.455	198.798	1.00164.72	I
ATOM	14743	CA	THR	I	23	6.473	134.132	198.182	1.00163.61	I
ATOM	14744	CB	THR	I	23	6.776	134.461	196.700	1.00162.07	I
ATOM	14745	OG1	THR	I	23	5.581	134.915	196.057	1.00161.97	I
ATOM	14746	CG2	THR	I	23	7.305	133.237	195.971	1.00160.17	I
ATOM	14747	C	THR	I	23	5.169	133.337	198.261	1.00163.88	I
ATOM	14748	O	THR	I	23	5.059	132.251	197.698	1.00164.43	I
ATOM	14749	N	ASN	I	24	4.182	133.888	198.962	1.00164.11	I
ATOM	14750	CA	ASN	I	24	2.883	133.236	199.107	1.00164.77	I
ATOM	14751	CB	ASN	I	24	2.262	133.588	200.464	1.00164.85	I
ATOM	14752	CG	ASN	I	24	0.851	133.045	200.622	1.00164.71	I
ATOM	14753	OD1	ASN	I	24	0.508	132.005	200.061	1.00165.17	I
ATOM	14754	ND2	ASN	I	24	0.033	133.739	201.403	1.00164.68	I
ATOM	14755	C	ASN	I	24	1.942	133.645	197.979	1.00165.31	I
ATOM	14756	O	ASN	I	24	1.499	134.791	197.913	1.00165.50	I
ATOM	14757	N	ASN	I	25	1.641	132.697	197.096	1.00166.28	I
ATOM	14758	CA	ASN	I	25	0.760	132.947	195.960	1.00167.85	I
ATOM	14759	CB	ASN	I	25	0.900	131.830	194.924	1.00165.46	I
ATOM	14760	CG	ASN	I	25	2.077	132.046	193.993	1.00163.39	I
ATOM	14761	OD1	ASN	I	25	3.217	132.202	194.434	1.00162.00	I
ATOM	14762	ND2	ASN	I	25	1.805	132.054	192.694	1.00161.80	I
ATOM	14763	C	ASN	I	25	-0.707	133.110	196.323	1.00170.15	I
ATOM	14764	O	ASN	I	25	-1.305	134.145	196.039	1.00171.05	I
ATOM	14765	N	ASP	I	26	-1.289	132.086	196.935	1.00172.88	I
ATOM	14766	CA	ASP	I	26	-2.693	132.130	197.320	1.00176.02	I
ATOM	14767	CB	ASP	I	26	-2.977	131.068	198.380	1.00178.13	I
ATOM	14768	CG	ASP	I	26	-2.792	129.656	197.849	1.00180.43	I
ATOM	14769	OD1	ASP	I	26	-3.003	128.692	198.620	1.00180.94	I
ATOM	14770	OD2	ASP	I	26	-2.436	129.516	196.656	1.00181.75	I
ATOM	14771	C	ASP	I	26	-3.091	133.507	197.833	1.00177.55	I
ATOM	14772	O	ASP	I	26	-2.838	133.857	198.985	1.00177.51	I
ATOM	14773	N	GLU	I	27	-3.720	134.279	196.954	1.00179.11	I
ATOM	14774	CA	GLU	I	27	-4.165	135.633	197.258	1.00180.66	I
ATOM	14775	CB	GLU	I	27	-5.053	136.144	196.124	1.00181.25	I
ATOM	14776	CG	GLU	I	27	-4.315	136.288	194.805	1.00183.87	I
ATOM	14777	CD	GLU	I	27	-5.240	136.443	193.612	1.00185.34	I
ATOM	14778	OE1	GLU	I	27	-6.147	137.305	193.660	1.00186.11	I
ATOM	14779	OE2	GLU	I	27	-5.050	135.701	192.621	1.00185.69	I
ATOM	14780	C	GLU	I	27	-4.911	135.756	198.576	1.00181.71	I
ATOM	14781	O	GLU	I	27	-5.037	136.854	199.118	1.00182.63	I
ATOM	14782	N	ASN	I	28	-5.404	134.641	199.098	1.00182.24	I
ATOM	14783	CA	ASN	I	28	-6.139	134.685	200.350	1.00182.58	I
ATOM	14784	CB	ASN	I	28	-7.610	135.020	200.058	1.00183.69	I
ATOM	14785	CG	ASN	I	28	-8.164	134.270	198.837	1.00183.92	I
ATOM	14786	OD1	ASN	I	28	-9.255	134.579	198.338	1.00183.62	I
ATOM	14787	ND2	ASN	I	28	-7.417	133.277	198.364	1.00183.37	I
ATOM	14788	C	ASN	I	28	-6.024	133.407	201.178	1.00182.42	I
ATOM	14789	O	ASN	I	28	-6.650	132.393	200.868	1.00181.85	I
ATOM	14790	N	SER	I	29	-5.222	133.485	202.238	1.00182.66	I
ATOM	14791	CA	SER	I	29	-4.985	132.378	203.159	1.00182.96	I
ATOM	14792	CB	SER	I	29	-4.928	131.043	202.410	1.00183.73	I
ATOM	14793	OG	SER	I	29	-3.918	131.051	201.413	1.00184.87	I
ATOM	14794	C	SER	I	29	-3.657	132.624	203.860	1.00182.48	I
ATOM	14795	O	SER	I	29	-2.617	132.725	203.211	1.00182.59	I
ATOM	14796	N	THR	I	30	-3.694	132.732	205.182	1.00182.14	I
ATOM	14797	CA	THR	I	30	-2.482	132.971	205.956	1.00182.16	I
ATOM	14798	CB	THR	I	30	-2.817	133.611	207.314	1.00180.88	I
ATOM	14799	OG1	THR	I	30	-3.653	134.755	207.104	1.00180.20	I

ATOM	14800	CG2	THR	I	30	-1.550	134.058	208.024	1.00179.77	I
ATOM	14801	C	THR	I	30	-1.735	131.659	206.189	1.00183.40	I
ATOM	14802	O	THR	I	30	-2.352	130.599	206.294	1.00184.51	I
ATOM	14803	N	TYR	I	31	-0.408	131.738	206.270	1.00183.63	I
ATOM	14804	CA	TYR	I	31	0.431	130.558	206.483	1.00183.42	I
ATOM	14805	CB	TYR	I	31	1.077	130.125	205.164	1.00182.90	I
ATOM	14806	CG	TYR	I	31	0.126	129.475	204.193	1.00183.26	I
ATOM	14807	CD1	TYR	I	31	-0.038	129.978	202.901	1.00183.38	I
ATOM	14808	CE1	TYR	I	31	-0.908	129.370	202.000	1.00184.04	I
ATOM	14809	CD2	TYR	I	31	-0.606	128.345	204.563	1.00183.69	I
ATOM	14810	CE2	TYR	I	31	-1.477	127.729	203.672	1.00184.57	I
ATOM	14811	CZ	TYR	I	31	-1.625	128.244	202.392	1.00184.63	I
ATOM	14812	OH	TYR	I	31	-2.481	127.624	201.507	1.00184.18	I
ATOM	14813	C	TYR	I	31	1.536	130.791	207.513	1.00183.52	I
ATOM	14814	O	TYR	I	31	2.122	131.874	207.579	1.00183.70	I
ATOM	14815	N	LEU	I	32	1.814	129.766	208.314	1.00183.51	I
ATOM	14816	CA	LEU	I	32	2.865	129.838	209.323	1.00183.90	I
ATOM	14817	CB	LEU	I	32	2.459	129.083	210.592	1.00182.54	I
ATOM	14818	CG	LEU	I	32	1.619	129.830	211.627	1.00181.64	I
ATOM	14819	CD1	LEU	I	32	1.261	128.887	212.760	1.00181.00	I
ATOM	14820	CD2	LEU	I	32	2.398	131.024	212.155	1.00181.56	I
ATOM	14821	C	LEU	I	32	4.142	129.227	208.765	1.00184.84	I
ATOM	14822	O	LEU	I	32	4.314	128.006	208.776	1.00185.24	I
ATOM	14823	N	ILE	I	33	5.033	130.082	208.272	1.00185.54	I
ATOM	14824	CA	ILE	I	33	6.294	129.623	207.706	1.00185.67	I
ATOM	14825	CB	ILE	I	33	6.990	130.743	206.900	1.00184.96	I
ATOM	14826	CG2	ILE	I	33	8.246	130.201	206.230	1.00184.14	I
ATOM	14827	CG1	ILE	I	33	6.029	131.306	205.847	1.00185.11	I
ATOM	14828	CD1	ILE	I	33	5.557	130.288	204.828	1.00184.76	I
ATOM	14829	C	ILE	I	33	7.230	129.160	208.812	1.00186.11	I
ATOM	14830	O	ILE	I	33	7.615	129.939	209.684	1.00186.02	I
ATOM	14831	N	GLN	I	34	7.584	127.881	208.778	1.00186.72	I
ATOM	14832	CA	GLN	I	34	8.477	127.314	209.775	1.00187.37	I
ATOM	14833	CB	GLN	I	34	7.726	126.283	210.621	1.00188.04	I
ATOM	14834	CG	GLN	I	34	8.457	125.855	211.878	1.00189.02	I
ATOM	14835	CD	GLN	I	34	7.614	124.958	212.763	1.00189.53	I
ATOM	14836	OE1	GLN	I	34	7.210	123.866	212.358	1.00189.81	I
ATOM	14837	NE2	GLN	I	34	7.342	125.416	213.980	1.00189.50	I
ATOM	14838	C	GLN	I	34	9.640	126.661	209.041	1.00187.54	I
ATOM	14839	O	GLN	I	34	9.465	125.654	208.355	1.00187.93	I
ATOM	14840	N	SER	I	35	10.825	127.247	209.179	1.00187.57	I
ATOM	14841	CA	SER	I	35	12.017	126.735	208.511	1.00187.29	I
ATOM	14842	CB	SER	I	35	12.698	127.862	207.724	1.00187.07	I
ATOM	14843	OG	SER	I	35	11.819	128.421	206.762	1.00185.94	I
ATOM	14844	C	SER	I	35	13.020	126.106	209.476	1.00186.86	I
ATOM	14845	O	SER	I	35	12.914	126.263	210.694	1.00186.86	I
ATOM	14846	N	TRP	I	36	13.990	125.388	208.915	1.00185.86	I
ATOM	14847	CA	TRP	I	36	15.027	124.732	209.702	1.00184.33	I
ATOM	14848	CB	TRP	I	36	14.400	123.728	210.680	1.00185.97	I
ATOM	14849	CG	TRP	I	36	13.894	122.471	210.040	1.00187.41	I
ATOM	14850	CD2	TRP	I	36	12.541	122.180	209.667	1.00188.11	I
ATOM	14851	CE2	TRP	I	36	12.539	120.897	209.073	1.00188.50	I
ATOM	14852	CE3	TRP	I	36	11.329	122.878	209.776	1.00187.95	I
ATOM	14853	CD1	TRP	I	36	14.635	121.383	209.670	1.00187.74	I
ATOM	14854	NE1	TRP	I	36	13.828	120.434	209.089	1.00188.30	I
ATOM	14855	CZ2	TRP	I	36	11.372	120.297	208.587	1.00188.80	I
ATOM	14856	CZ3	TRP	I	36	10.166	122.278	209.290	1.00188.52	I
ATOM	14857	CH2	TRP	I	36	10.199	121.001	208.704	1.00188.58	I

ATOM	14858	C	TRP	I	36	16.001	124.023	208.762	1.00182.46	I
ATOM	14859	O	TRP	I	36	15.645	123.682	207.631	1.00181.52	I
ATOM	14860	N	VAL	I	37	17.226	123.805	209.234	1.00181.13	I
ATOM	14861	CA	VAL	I	37	18.250	123.149	208.426	1.00179.83	I
ATOM	14862	CB	VAL	I	37	19.438	124.095	208.149	1.00179.26	I
ATOM	14863	CG1	VAL	I	37	20.510	123.367	207.350	1.00178.38	I
ATOM	14864	CG2	VAL	I	37	18.956	125.314	207.389	1.00179.25	I
ATOM	14865	C	VAL	I	37	18.801	121.865	209.037	1.00179.17	I
ATOM	14866	O	VAL	I	37	19.453	121.878	210.082	1.00178.77	I
ATOM	14867	N	GLU	I	38	18.533	120.756	208.358	1.00178.69	I
ATOM	14868	CA	GLU	I	38	18.999	119.443	208.780	1.00177.52	I
ATOM	14869	CB	GLU	I	38	17.980	118.376	208.372	1.00177.84	I
ATOM	14870	CG	GLU	I	38	16.614	118.524	209.034	1.00176.51	I
ATOM	14871	CD	GLU	I	38	15.537	117.717	208.332	1.00175.90	I
ATOM	14872	OE1	GLU	I	38	15.785	116.532	208.031	1.00176.43	I
ATOM	14873	OE2	GLU	I	38	14.441	118.262	208.083	1.00174.70	I
ATOM	14874	C	GLU	I	38	20.326	119.195	208.067	1.00176.37	I
ATOM	14875	O	GLU	I	38	20.640	119.866	207.080	1.00175.79	I
ATOM	14876	N	ASN	I	39	21.109	118.242	208.561	1.00174.91	I
ATOM	14877	CA	ASN	I	39	22.387	117.940	207.932	1.00172.70	I
ATOM	14878	CB	ASN	I	39	23.425	117.509	208.976	1.00172.40	I
ATOM	14879	CG	ASN	I	39	23.029	116.243	209.711	1.00172.04	I
ATOM	14880	OD1	ASN	I	39	22.669	115.240	209.094	1.00171.71	I
ATOM	14881	ND2	ASN	I	39	23.112	116.279	211.037	1.00172.26	I
ATOM	14882	C	ASN	I	39	22.239	116.851	206.877	1.00171.09	I
ATOM	14883	O	ASN	I	39	21.127	116.466	206.508	1.00170.68	I
ATOM	14884	N	ALA	I	40	23.375	116.361	206.393	1.00169.33	I
ATOM	14885	CA	ALA	I	40	23.399	115.324	205.373	1.00167.80	I
ATOM	14886	CB	ALA	I	40	24.837	114.900	205.106	1.00167.21	I
ATOM	14887	C	ALA	I	40	22.556	114.117	205.779	1.00167.13	I
ATOM	14888	O	ALA	I	40	21.796	113.584	204.970	1.00166.54	I
ATOM	14889	N	ASP	I	41	22.692	113.692	207.032	1.00167.14	I
ATOM	14890	CA	ASP	I	41	21.944	112.547	207.547	1.00167.03	I
ATOM	14891	CB	ASP	I	41	22.659	111.939	208.761	1.00167.34	I
ATOM	14892	CG	ASP	I	41	24.033	111.385	208.419	1.00167.25	I
ATOM	14893	OD1	ASP	I	41	24.122	110.502	207.538	1.00165.93	I
ATOM	14894	OD2	ASP	I	41	25.024	111.829	209.038	1.00167.92	I
ATOM	14895	C	ASP	I	41	20.527	112.946	207.945	1.00166.54	I
ATOM	14896	O	ASP	I	41	19.901	112.295	208.783	1.00165.90	I
ATOM	14897	N	GLY	I	42	20.029	114.023	207.349	1.00166.56	I
ATOM	14898	CA	GLY	I	42	18.685	114.480	207.653	1.00166.78	I
ATOM	14899	C	GLY	I	42	18.451	114.845	209.107	1.00167.04	I
ATOM	14900	O	GLY	I	42	17.398	115.371	209.455	1.00166.89	I
ATOM	14901	N	VAL	I	43	19.427	114.570	209.964	1.00167.58	I
ATOM	14902	CA	VAL	I	43	19.299	114.885	211.383	1.00168.44	I
ATOM	14903	CB	VAL	I	43	20.364	114.115	212.223	1.00168.09	I
ATOM	14904	CG1	VAL	I	43	21.599	113.845	211.381	1.00167.28	I
ATOM	14905	CG2	VAL	I	43	20.750	114.918	213.467	1.00168.11	I
ATOM	14906	C	VAL	I	43	19.431	116.385	211.647	1.00169.11	I
ATOM	14907	O	VAL	I	43	20.423	117.003	211.267	1.00168.60	I
ATOM	14908	N	LYS	I	44	18.424	116.965	212.295	1.00170.30	I
ATOM	14909	CA	LYS	I	44	18.458	118.387	212.613	1.00171.44	I
ATOM	14910	CB	LYS	I	44	17.139	118.865	213.222	1.00170.55	I
ATOM	14911	CG	LYS	I	44	15.894	118.658	212.381	1.00169.94	I
ATOM	14912	CD	LYS	I	44	15.260	117.308	212.656	1.00168.75	I
ATOM	14913	CE	LYS	I	44	13.841	117.254	212.138	1.00168.50	I
ATOM	14914	NZ	LYS	I	44	12.981	118.268	212.793	1.00168.66	I
ATOM	14915	C	LYS	I	44	19.564	118.660	213.618	1.00172.54	I

ATOM	14916	O	LYS	I	44	19.709	117.947	214.615	1.00171.71	I
ATOM	14917	N	ASP	I	45	20.326	119.715	213.358	1.00174.37	I
ATOM	14918	CA	ASP	I	45	21.425	120.107	214.226	1.00176.02	I
ATOM	14919	CB	ASP	I	45	22.750	119.513	213.740	1.00175.76	I
ATOM	14920	CG	ASP	I	45	22.958	119.666	212.241	1.00175.48	I
ATOM	14921	OD1	ASP	I	45	22.436	120.626	211.644	1.00175.23	I
ATOM	14922	OD2	ASP	I	45	23.681	118.837	211.652	1.00175.36	I
ATOM	14923	C	ASP	I	45	21.529	121.619	214.265	1.00177.38	I
ATOM	14924	O	ASP	I	45	20.904	122.312	213.465	1.00178.11	I
ATOM	14925	N	GLY	I	46	22.308	122.132	215.208	1.00178.28	I
ATOM	14926	CA	GLY	I	46	22.457	123.569	215.319	1.00178.91	I
ATOM	14927	C	GLY	I	46	23.263	124.157	214.176	1.00179.50	I
ATOM	14928	O	GLY	I	46	23.280	125.374	213.998	1.00179.53	I
ATOM	14929	N	ARG	I	47	23.926	123.294	213.405	1.00180.30	I
ATOM	14930	CA	ARG	I	47	24.754	123.709	212.268	1.00180.72	I
ATOM	14931	CB	ARG	I	47	24.906	122.551	211.277	1.00181.53	I
ATOM	14932	CG	ARG	I	47	26.212	121.790	211.431	1.00182.80	I
ATOM	14933	CD	ARG	I	47	26.289	121.056	212.763	1.00183.62	I
ATOM	14934	NE	ARG	I	47	27.659	120.667	213.089	1.00184.63	I
ATOM	14935	CZ	ARG	I	47	28.603	121.516	213.488	1.00184.77	I
ATOM	14936	NH1	ARG	I	47	28.327	122.806	213.618	1.00184.10	I
ATOM	14937	NH2	ARG	I	47	29.828	121.077	213.746	1.00184.53	I
ATOM	14938	C	ARG	I	47	24.291	124.960	211.517	1.00180.39	I
ATOM	14939	O	ARG	I	47	25.067	125.902	211.350	1.00180.43	I
ATOM	14940	N	PHE	I	48	23.047	124.966	211.045	1.00179.66	I
ATOM	14941	CA	PHE	I	48	22.520	126.128	210.330	1.00178.63	I
ATOM	14942	CB	PHE	I	48	22.370	125.832	208.832	1.00178.21	I
ATOM	14943	CG	PHE	I	48	23.673	125.815	208.077	1.00177.72	I
ATOM	14944	CD1	PHE	I	48	24.472	124.677	208.059	1.00177.20	I
ATOM	14945	CD2	PHE	I	48	24.104	126.947	207.387	1.00176.96	I
ATOM	14946	CE1	PHE	I	48	25.680	124.665	207.363	1.00175.98	I
ATOM	14947	CE2	PHE	I	48	25.308	126.946	206.690	1.00175.36	I
ATOM	14948	CZ	PHE	I	48	26.097	125.804	206.677	1.00174.99	I
ATOM	14949	C	PHE	I	48	21.178	126.579	210.898	1.00177.67	I
ATOM	14950	O	PHE	I	48	20.266	125.769	211.072	1.00177.53	I
ATOM	14951	N	ILE	I	49	21.065	127.875	211.182	1.00176.22	I
ATOM	14952	CA	ILE	I	49	19.842	128.437	211.746	1.00174.76	I
ATOM	14953	CB	ILE	I	49	20.117	129.074	213.125	1.00173.18	I
ATOM	14954	CG2	ILE	I	49	18.820	129.617	213.715	1.00172.96	I
ATOM	14955	CG1	ILE	I	49	20.735	128.030	214.061	1.00171.05	I
ATOM	14956	CD1	ILE	I	49	21.114	128.564	215.420	1.00168.65	I
ATOM	14957	C	ILE	I	49	19.207	129.492	210.842	1.00174.49	I
ATOM	14958	O	ILE	I	49	19.805	130.533	210.578	1.00174.33	I
ATOM	14959	N	VAL	I	50	17.993	129.212	210.375	1.00174.46	I
ATOM	14960	CA	VAL	I	50	17.264	130.131	209.505	1.00174.66	I
ATOM	14961	CB	VAL	I	50	16.299	129.368	208.567	1.00174.14	I
ATOM	14962	CG1	VAL	I	50	15.543	130.345	207.679	1.00173.06	I
ATOM	14963	CG2	VAL	I	50	17.080	128.379	207.721	1.00174.21	I
ATOM	14964	C	VAL	I	50	16.458	131.113	210.349	1.00175.20	I
ATOM	14965	O	VAL	I	50	16.106	130.813	211.492	1.00175.70	I
ATOM	14966	N	THR	I	51	16.172	132.284	209.782	1.00175.13	I
ATOM	14967	CA	THR	I	51	15.414	133.319	210.485	1.00175.02	I
ATOM	14968	CB	THR	I	51	16.360	134.247	211.278	1.00174.21	I
ATOM	14969	OG1	THR	I	51	17.371	134.762	210.403	1.00174.43	I
ATOM	14970	CG2	THR	I	51	17.025	133.487	212.416	1.00173.59	I
ATOM	14971	C	THR	I	51	14.576	134.182	209.535	1.00175.02	I
ATOM	14972	O	THR	I	51	15.025	134.531	208.444	1.00174.81	I
ATOM	14973	N	PRO	I	52	13.342	134.533	209.939	1.00175.15	I

ATOM	14974	CD	PRO	I	52	12.529	135.511	209.196	1.00174.39	I
ATOM	14975	CA	PRO	I	52	12.694	134.178	211.209	1.00175.76	I
ATOM	14976	CB	PRO	I	52	11.526	135.160	211.286	1.00175.32	I
ATOM	14977	CG	PRO	I	52	11.186	135.382	209.858	1.00174.54	I
ATOM	14978	C	PRO	I	52	12.245	132.713	211.264	1.00176.38	I
ATOM	14979	O	PRO	I	52	11.794	132.152	210.262	1.00176.44	I
ATOM	14980	N	PRO	I	53	12.369	132.078	212.443	1.00176.59	I
ATOM	14981	CD	PRO	I	53	12.869	132.695	213.686	1.00176.43	I
ATOM	14982	CA	PRO	I	53	11.997	130.678	212.679	1.00176.63	I
ATOM	14983	CB	PRO	I	53	12.599	130.398	214.048	1.00176.76	I
ATOM	14984	CG	PRO	I	53	12.420	131.710	214.744	1.00176.81	I
ATOM	14985	C	PRO	I	53	10.495	130.402	212.643	1.00176.65	I
ATOM	14986	O	PRO	I	53	10.068	129.247	212.569	1.00176.56	I
ATOM	14987	N	LEU	I	54	9.702	131.466	212.707	1.00176.27	I
ATOM	14988	CA	LEU	I	54	8.250	131.345	212.674	1.00175.19	I
ATOM	14989	CB	LEU	I	54	7.735	130.752	213.987	1.00173.39	I
ATOM	14990	CG	LEU	I	54	6.229	130.500	214.074	1.00171.96	I
ATOM	14991	CD1	LEU	I	54	5.775	129.603	212.928	1.00171.10	I
ATOM	14992	CD2	LEU	I	54	5.915	129.854	215.412	1.00171.23	I
ATOM	14993	C	LEU	I	54	7.609	132.706	212.434	1.00174.86	I
ATOM	14994	O	LEU	I	54	7.887	133.669	213.149	1.00174.96	I
ATOM	14995	N	PHE	I	55	6.755	132.778	211.420	1.00174.38	I
ATOM	14996	CA	PHE	I	55	6.071	134.017	211.076	1.00173.84	I
ATOM	14997	CB	PHE	I	55	7.061	135.000	210.447	1.00174.85	I
ATOM	14998	CG	PHE	I	55	7.632	134.539	209.135	1.00176.47	I
ATOM	14999	CD1	PHE	I	55	7.082	134.971	207.933	1.00176.92	I
ATOM	15000	CD2	PHE	I	55	8.730	133.686	209.100	1.00176.92	I
ATOM	15001	CE1	PHE	I	55	7.620	134.565	206.714	1.00177.16	I
ATOM	15002	CE2	PHE	I	55	9.277	133.273	207.886	1.00177.15	I
ATOM	15003	CZ	PHE	I	55	8.720	133.715	206.690	1.00176.97	I
ATOM	15004	C	PHE	I	55	4.932	133.707	210.113	1.00172.99	I
ATOM	15005	O	PHE	I	55	4.804	132.574	209.647	1.00173.65	I
ATOM	15006	N	ALA	I	56	4.107	134.705	209.812	1.00171.08	I
ATOM	15007	CA	ALA	I	56	2.976	134.489	208.917	1.00168.48	I
ATOM	15008	CB	ALA	I	56	1.674	134.670	209.689	1.00168.49	I
ATOM	15009	C	ALA	I	56	2.967	135.374	207.674	1.00166.34	I
ATOM	15010	O	ALA	I	56	3.297	136.557	207.737	1.00165.84	I
ATOM	15011	N	MET	I	57	2.587	134.780	206.546	1.00164.76	I
ATOM	15012	CA	MET	I	57	2.495	135.494	205.276	1.00163.59	I
ATOM	15013	CB	MET	I	57	3.307	134.796	204.187	1.00162.56	I
ATOM	15014	CG	MET	I	57	4.802	134.810	204.408	1.00161.94	I
ATOM	15015	SD	MET	I	57	5.684	134.806	202.830	1.00159.75	I
ATOM	15016	CE	MET	I	57	5.296	133.184	202.234	1.00159.54	I
ATOM	15017	C	MET	I	57	1.038	135.544	204.843	1.00163.33	I
ATOM	15018	O	MET	I	57	0.530	134.602	204.230	1.00163.67	I
ATOM	15019	N	LYS	I	58	0.371	136.648	205.160	1.00162.49	I
ATOM	15020	CA	LYS	I	58	-1.034	136.812	204.817	1.00161.79	I
ATOM	15021	CB	LYS	I	58	-1.665	137.879	205.715	1.00162.89	I
ATOM	15022	CG	LYS	I	58	-3.178	137.799	205.805	1.00164.80	I
ATOM	15023	CD	LYS	I	58	-3.729	138.915	206.673	1.00165.32	I
ATOM	15024	CE	LYS	I	58	-5.158	138.625	207.099	1.00165.89	I
ATOM	15025	NZ	LYS	I	58	-5.220	137.440	208.007	1.00167.38	I
ATOM	15026	C	LYS	I	58	-1.209	137.198	203.349	1.00160.41	I
ATOM	15027	O	LYS	I	58	-0.482	138.050	202.834	1.00160.22	I
ATOM	15028	N	GLY	I	59	-2.171	136.562	202.683	1.00158.90	I
ATOM	15029	CA	GLY	I	59	-2.435	136.849	201.282	1.00157.30	I
ATOM	15030	C	GLY	I	59	-1.178	136.905	200.437	1.00156.45	I
ATOM	15031	O	GLY	I	59	-0.141	136.367	200.827	1.00156.79	I

ATOM	15032	N	LYS	I	60	-1.262	137.556	199.280	1.00155.48	I
ATOM	15033	CA	LYS	I	60	-0.104	137.666	198.399	1.00154.79	I
ATOM	15034	CB	LYS	I	60	-0.507	138.195	197.020	1.00152.36	I
ATOM	15035	CG	LYS	I	60	-1.508	137.335	196.288	1.00148.67	I
ATOM	15036	CD	LYS	I	60	-1.473	137.599	194.791	1.00146.26	I
ATOM	15037	CE	LYS	I	60	-0.225	137.011	194.150	1.00144.27	I
ATOM	15038	NZ	LYS	I	60	-0.285	137.057	192.660	1.00143.25	I
ATOM	15039	C	LYS	I	60	0.947	138.593	198.992	1.00155.61	I
ATOM	15040	O	LYS	I	60	0.835	139.815	198.888	1.00155.57	I
ATOM	15041	N	LYS	I	61	1.965	138.008	199.614	1.00156.51	I
ATOM	15042	CA	LYS	I	61	3.038	138.789	200.212	1.00157.29	I
ATOM	15043	CB	LYS	I	61	3.071	138.595	201.728	1.00157.35	I
ATOM	15044	CG	LYS	I	61	3.086	139.903	202.502	1.00157.26	I
ATOM	15045	CD	LYS	I	61	3.920	139.792	203.764	1.00157.36	I
ATOM	15046	CE	LYS	I	61	3.450	138.657	204.653	1.00157.46	I
ATOM	15047	NZ	LYS	I	61	4.340	138.508	205.835	1.00158.38	I
ATOM	15048	C	LYS	I	61	4.368	138.355	199.614	1.00158.09	I
ATOM	15049	O	LYS	I	61	4.415	137.876	198.481	1.00158.23	I
ATOM	15050	N	GLU	I	62	5.444	138.523	200.378	1.00159.35	I
ATOM	15051	CA	GLU	I	62	6.778	138.148	199.918	1.00160.63	I
ATOM	15052	CB	GLU	I	62	7.056	138.811	198.563	1.00159.93	I
ATOM	15053	CG	GLU	I	62	7.880	137.978	197.595	1.00159.89	I
ATOM	15054	CD	GLU	I	62	9.370	138.202	197.734	1.00160.35	I
ATOM	15055	OE1	GLU	I	62	9.898	138.006	198.850	1.00160.47	I
ATOM	15056	OE2	GLU	I	62	10.011	138.570	196.723	1.00159.93	I
ATOM	15057	C	GLU	I	62	7.819	138.580	200.955	1.00161.41	I
ATOM	15058	O	GLU	I	62	8.186	139.754	201.027	1.00161.62	I
ATOM	15059	N	ASN	I	63	8.283	137.626	201.761	1.00161.91	I
ATOM	15060	CA	ASN	I	63	9.272	137.909	202.797	1.00162.14	I
ATOM	15061	CB	ASN	I	63	8.771	137.411	204.155	1.00160.16	I
ATOM	15062	CG	ASN	I	63	7.401	137.954	204.505	1.00157.80	I
ATOM	15063	OD1	ASN	I	63	6.445	137.797	203.745	1.00154.76	I
ATOM	15064	ND2	ASN	I	63	7.296	138.593	205.664	1.00156.86	I
ATOM	15065	C	ASN	I	63	10.619	137.264	202.487	1.00163.29	I
ATOM	15066	O	ASN	I	63	10.746	136.496	201.535	1.00163.26	I
ATOM	15067	N	THR	I	64	11.618	137.577	203.305	1.00165.04	I
ATOM	15068	CA	THR	I	64	12.962	137.039	203.121	1.00167.43	I
ATOM	15069	CB	THR	I	64	13.978	138.176	202.861	1.00167.52	I
ATOM	15070	OG1	THR	I	64	13.585	138.910	201.695	1.00168.83	I
ATOM	15071	CG2	THR	I	64	15.374	137.614	202.647	1.00166.89	I
ATOM	15072	C	THR	I	64	13.434	136.235	204.333	1.00169.27	I
ATOM	15073	O	THR	I	64	13.306	136.681	205.474	1.00170.09	I
ATOM	15074	N	LEU	I	65	13.976	135.047	204.076	1.00170.61	I
ATOM	15075	CA	LEU	I	65	14.491	134.182	205.137	1.00172.05	I
ATOM	15076	CB	LEU	I	65	14.205	132.713	204.811	1.00172.22	I
ATOM	15077	CG	LEU	I	65	12.737	132.285	204.753	1.00171.38	I
ATOM	15078	CD1	LEU	I	65	12.642	130.842	204.282	1.00170.72	I
ATOM	15079	CD2	LEU	I	65	12.096	132.449	206.123	1.00171.36	I
ATOM	15080	C	LEU	I	65	15.998	134.408	205.243	1.00172.82	I
ATOM	15081	O	LEU	I	65	16.651	134.682	204.240	1.00173.71	I
ATOM	15082	N	ARG	I	66	16.548	134.294	206.450	1.00173.03	I
ATOM	15083	CA	ARG	I	66	17.979	134.511	206.649	1.00173.27	I
ATOM	15084	CB	ARG	I	66	18.203	135.768	207.500	1.00172.88	I
ATOM	15085	CG	ARG	I	66	17.455	136.999	206.995	1.00172.17	I
ATOM	15086	CD	ARG	I	66	17.772	138.243	207.817	1.00170.77	I
ATOM	15087	NE	ARG	I	66	16.918	139.376	207.465	1.00170.27	I
ATOM	15088	CZ	ARG	I	66	16.824	139.899	206.245	1.00170.35	I
ATOM	15089	NH1	ARG	I	66	17.533	139.396	205.241	1.00170.08	I

ATOM	15090	NH2	ARG	I	66	16.019	140.931	206.027	1.00169.47	I
ATOM	15091	C	ARG	I	66	18.685	133.320	207.295	1.00173.77	I
ATOM	15092	O	ARG	I	66	18.466	133.013	208.470	1.00173.35	I
ATOM	15093	N	ILE	I	67	19.537	132.660	206.512	1.00174.71	I
ATOM	15094	CA	ILE	I	67	20.303	131.500	206.966	1.00175.47	I
ATOM	15095	CB	ILE	I	67	20.772	130.622	205.770	1.00175.08	I
ATOM	15096	CG2	ILE	I	67	21.701	129.524	206.260	1.00175.38	I
ATOM	15097	CG1	ILE	I	67	19.572	129.993	205.058	1.00174.98	I
ATOM	15098	CD1	ILE	I	67	18.741	130.969	204.256	1.00175.46	I
ATOM	15099	C	ILE	I	67	21.543	131.946	207.740	1.00175.85	I
ATOM	15100	O	ILE	I	67	22.466	132.522	207.168	1.00175.55	I
ATOM	15101	N	LEU	I	68	21.566	131.663	209.038	1.00176.39	I
ATOM	15102	CA	LEU	I	68	22.691	132.050	209.881	1.00176.21	I
ATOM	15103	CB	LEU	I	68	22.180	132.570	211.222	1.00176.46	I
ATOM	15104	CG	LEU	I	68	20.995	133.531	211.154	1.00176.67	I
ATOM	15105	CD1	LEU	I	68	20.583	133.911	212.560	1.00176.52	I
ATOM	15106	CD2	LEU	I	68	21.361	134.765	210.349	1.00176.78	I
ATOM	15107	C	LEU	I	68	23.642	130.885	210.119	1.00176.02	I
ATOM	15108	O	LEU	I	68	23.211	129.765	210.391	1.00175.41	I
ATOM	15109	N	ASP	I	69	24.938	131.164	210.026	1.00176.43	I
ATOM	15110	CA	ASP	I	69	25.963	130.146	210.221	1.00176.82	I
ATOM	15111	CB	ASP	I	69	27.239	130.547	209.466	1.00176.44	I
ATOM	15112	CG	ASP	I	69	28.257	129.421	209.389	1.00176.43	I
ATOM	15113	OD1	ASP	I	69	29.217	129.528	208.593	1.00176.56	I
ATOM	15114	OD2	ASP	I	69	28.099	128.431	210.129	1.00176.03	I
ATOM	15115	C	ASP	I	69	26.266	129.947	211.706	1.00177.10	I
ATOM	15116	O	ASP	I	69	26.967	130.752	212.319	1.00176.98	I
ATOM	15117	N	ALA	I	70	25.726	128.872	212.276	1.00177.17	I
ATOM	15118	CA	ALA	I	70	25.934	128.550	213.686	1.00176.63	I
ATOM	15119	CB	ALA	I	70	24.699	127.858	214.257	1.00176.85	I
ATOM	15120	C	ALA	I	70	27.160	127.655	213.844	1.00176.42	I
ATOM	15121	O	ALA	I	70	27.874	127.741	214.844	1.00176.42	I
ATOM	15122	N	THR	I	71	27.396	126.791	212.859	1.00176.07	I
ATOM	15123	CA	THR	I	71	28.555	125.904	212.895	1.00175.62	I
ATOM	15124	CB	THR	I	71	28.574	124.930	211.683	1.00176.74	I
ATOM	15125	OG1	THR	I	71	29.826	124.234	211.647	1.00177.34	I
ATOM	15126	CG2	THR	I	71	28.375	125.680	210.375	1.00177.25	I
ATOM	15127	C	THR	I	71	29.808	126.774	212.870	1.00174.26	I
ATOM	15128	O	THR	I	71	30.125	127.393	211.853	1.00174.50	I
ATOM	15129	N	ASN	I	72	30.510	126.825	213.999	1.00172.05	I
ATOM	15130	CA	ASN	I	72	31.722	127.629	214.124	1.00169.70	I
ATOM	15131	CB	ASN	I	72	32.144	127.708	215.595	1.00169.13	I
ATOM	15132	CG	ASN	I	72	31.303	128.692	216.394	1.00168.42	I
ATOM	15133	OD1	ASN	I	72	31.424	128.779	217.616	1.00167.36	I
ATOM	15134	ND2	ASN	I	72	30.452	129.446	215.703	1.00167.48	I
ATOM	15135	C	ASN	I	72	32.892	127.128	213.279	1.00168.14	I
ATOM	15136	O	ASN	I	72	33.982	126.878	213.799	1.00167.89	I
ATOM	15137	N	ASN	I	73	32.666	126.993	211.974	1.00166.37	I
ATOM	15138	CA	ASN	I	73	33.704	126.528	211.057	1.00163.93	I
ATOM	15139	CB	ASN	I	73	34.893	127.495	211.092	1.00162.35	I
ATOM	15140	CG	ASN	I	73	34.476	128.942	210.881	1.00160.38	I
ATOM	15141	OD1	ASN	I	73	33.727	129.510	211.677	1.00158.68	I
ATOM	15142	ND2	ASN	I	73	34.961	129.545	209.803	1.00158.67	I
ATOM	15143	C	ASN	I	73	34.158	125.128	211.463	1.00162.87	I
ATOM	15144	O	ASN	I	73	35.326	124.770	211.324	1.00162.84	I
ATOM	15145	N	GLN	I	74	33.216	124.339	211.966	1.00161.73	I
ATOM	15146	CA	GLN	I	74	33.499	122.985	212.424	1.00159.99	I
ATOM	15147	CB	GLN	I	74	32.577	122.653	213.606	1.00161.67	I

ATOM	15148	CG	GLN	I	74	32.771	123.599	214.802	1.00163.37	I
ATOM	15149	CD	GLN	I	74	31.598	123.617	215.780	1.00163.38	I
ATOM	15150	OE1	GLN	I	74	31.636	124.315	216.796	1.00162.32	I
ATOM	15151	NE2	GLN	I	74	30.553	122.856	215.473	1.00163.49	I
ATOM	15152	C	GLN	I	74	33.332	121.963	211.305	1.00157.21	I
ATOM	15153	O	GLN	I	74	33.429	120.755	211.530	1.00156.61	I
ATOM	15154	N	LEU	I	75	33.100	122.460	210.094	1.00154.37	I
ATOM	15155	CA	LEU	I	75	32.909	121.601	208.933	1.00152.43	I
ATOM	15156	CB	LEU	I	75	31.729	122.111	208.105	1.00151.82	I
ATOM	15157	CG	LEU	I	75	30.358	122.031	208.775	1.00150.94	I
ATOM	15158	CD1	LEU	I	75	29.357	122.830	207.969	1.00150.95	I
ATOM	15159	CD2	LEU	I	75	29.926	120.580	208.896	1.00149.47	I
ATOM	15160	C	LEU	I	75	34.155	121.527	208.057	1.00150.99	I
ATOM	15161	O	LEU	I	75	35.024	122.396	208.124	1.00150.12	I
ATOM	15162	N	PRO	I	76	34.259	120.475	207.225	1.00150.00	I
ATOM	15163	CD	PRO	I	76	33.297	119.366	207.091	1.00149.14	I
ATOM	15164	CA	PRO	I	76	35.402	120.282	206.328	1.00148.93	I
ATOM	15165	CB	PRO	I	76	34.973	119.091	205.479	1.00148.52	I
ATOM	15166	CG	PRO	I	76	34.134	118.301	206.428	1.00148.86	I
ATOM	15167	C	PRO	I	76	35.641	121.529	205.487	1.00148.65	I
ATOM	15168	O	PRO	I	76	34.697	122.117	204.958	1.00148.94	I
ATOM	15169	N	GLN	I	77	36.902	121.927	205.362	1.00148.31	I
ATOM	15170	CA	GLN	I	77	37.249	123.114	204.592	1.00147.92	I
ATOM	15171	CB	GLN	I	77	38.094	124.057	205.454	1.00146.02	I
ATOM	15172	CG	GLN	I	77	37.458	124.385	206.803	1.00143.19	I
ATOM	15173	CD	GLN	I	77	36.103	125.060	206.674	1.00141.30	I
ATOM	15174	OE1	GLN	I	77	35.362	125.184	207.651	1.00139.56	I
ATOM	15175	NE2	GLN	I	77	35.776	125.508	205.468	1.00140.68	I
ATOM	15176	C	GLN	I	77	37.989	122.768	203.299	1.00148.94	I
ATOM	15177	O	GLN	I	77	38.736	123.588	202.758	1.00148.44	I
ATOM	15178	N	ASP	I	78	37.764	121.552	202.805	1.00150.47	I
ATOM	15179	CA	ASP	I	78	38.392	121.081	201.573	1.00151.27	I
ATOM	15180	CB	ASP	I	78	39.332	119.904	201.867	1.00151.29	I
ATOM	15181	CG	ASP	I	78	38.591	118.657	202.334	1.00151.79	I
ATOM	15182	OD1	ASP	I	78	39.245	117.599	202.465	1.00151.05	I
ATOM	15183	OD2	ASP	I	78	37.364	118.727	202.571	1.00151.38	I
ATOM	15184	C	ASP	I	78	37.353	120.647	200.535	1.00151.73	I
ATOM	15185	O	ASP	I	78	37.705	120.222	199.435	1.00151.07	I
ATOM	15186	N	ARG	I	79	36.076	120.757	200.894	1.00152.40	I
ATOM	15187	CA	ARG	I	79	34.976	120.373	200.010	1.00151.94	I
ATOM	15188	CB	ARG	I	79	34.844	118.852	199.968	1.00152.68	I
ATOM	15189	CG	ARG	I	79	34.331	118.250	201.271	1.00153.55	I
ATOM	15190	CD	ARG	I	79	34.546	116.751	201.319	1.00153.28	I
ATOM	15191	NE	ARG	I	79	35.967	116.432	201.396	1.00155.00	I
ATOM	15192	CZ	ARG	I	79	36.453	115.196	201.422	1.00156.48	I
ATOM	15193	NH1	ARG	I	79	35.630	114.154	201.376	1.00156.69	I
ATOM	15194	NH2	ARG	I	79	37.763	114.997	201.493	1.00157.92	I
ATOM	15195	C	ARG	I	79	33.677	120.961	200.548	1.00151.10	I
ATOM	15196	O	ARG	I	79	33.681	121.657	201.564	1.00151.23	I
ATOM	15197	N	GLU	I	80	32.564	120.671	199.881	1.00149.78	I
ATOM	15198	CA	GLU	I	80	31.277	121.180	200.339	1.00148.60	I
ATOM	15199	CB	GLU	I	80	30.329	121.438	199.172	1.00145.81	I
ATOM	15200	CG	GLU	I	80	30.956	121.943	197.907	1.00141.88	I
ATOM	15201	CD	GLU	I	80	29.903	122.350	196.907	1.00139.88	I
ATOM	15202	OE1	GLU	I	80	29.402	123.485	197.010	1.00140.22	I
ATOM	15203	OE2	GLU	I	80	29.554	121.533	196.032	1.00137.48	I
ATOM	15204	C	GLU	I	80	30.608	120.166	201.256	1.00148.92	I
ATOM	15205	O	GLU	I	80	30.675	118.960	201.014	1.00147.71	I

ATOM	15206	N	SER	I	81	29.965	120.663	202.309	1.00149.98	I
ATOM	15207	CA	SER	I	81	29.244	119.810	203.246	1.00150.50	I
ATOM	15208	CB	SER	I	81	29.500	120.243	204.694	1.00150.74	I
ATOM	15209	OG	SER	I	81	30.831	119.963	205.097	1.00152.16	I
ATOM	15210	C	SER	I	81	27.769	119.975	202.905	1.00150.65	I
ATOM	15211	O	SER	I	81	27.215	121.066	203.027	1.00150.24	I
ATOM	15212	N	LEU	I	82	27.140	118.891	202.466	1.00151.50	I
ATOM	15213	CA	LEU	I	82	25.736	118.929	202.087	1.00152.17	I
ATOM	15214	CB	LEU	I	82	25.405	117.738	201.179	1.00151.22	I
ATOM	15215	CG	LEU	I	82	23.974	117.559	200.655	1.00150.45	I
ATOM	15216	CD1	LEU	I	82	23.488	118.825	199.969	1.00150.08	I
ATOM	15217	CD2	LEU	I	82	23.943	116.388	199.685	1.00149.55	I
ATOM	15218	C	LEU	I	82	24.790	118.947	203.278	1.00153.67	I
ATOM	15219	O	LEU	I	82	24.914	118.142	204.205	1.00154.10	I
ATOM	15220	N	PHE	I	83	23.858	119.895	203.236	1.00154.74	I
ATOM	15221	CA	PHE	I	83	22.823	120.068	204.252	1.00155.54	I
ATOM	15222	CB	PHE	I	83	23.042	121.348	205.069	1.00154.78	I
ATOM	15223	CG	PHE	I	83	24.193	121.271	206.024	1.00155.28	I
ATOM	15224	CD1	PHE	I	83	25.501	121.235	205.555	1.00155.09	I
ATOM	15225	CD2	PHE	I	83	23.970	121.217	207.396	1.00156.30	I
ATOM	15226	CE1	PHE	I	83	26.573	121.144	206.437	1.00155.16	I
ATOM	15227	CE2	PHE	I	83	25.034	121.125	208.288	1.00156.40	I
ATOM	15228	CZ	PHE	I	83	26.340	121.089	207.807	1.00155.64	I
ATOM	15229	C	PHE	I	83	21.514	120.190	203.482	1.00156.48	I
ATOM	15230	O	PHE	I	83	21.497	120.058	202.256	1.00156.86	I
ATOM	15231	N	TRP	I	84	20.419	120.438	204.190	1.00156.80	I
ATOM	15232	CA	TRP	I	84	19.134	120.584	203.529	1.00156.34	I
ATOM	15233	CB	TRP	I	84	18.376	119.255	203.512	1.00154.12	I
ATOM	15234	CG	TRP	I	84	19.007	118.219	202.640	1.00150.91	I
ATOM	15235	CD2	TRP	I	84	18.724	117.974	201.256	1.00149.87	I
ATOM	15236	CE2	TRP	I	84	19.567	116.920	200.837	1.00149.46	I
ATOM	15237	CE3	TRP	I	84	17.840	118.542	200.329	1.00149.15	I
ATOM	15238	CD1	TRP	I	84	19.982	117.333	202.993	1.00150.56	I
ATOM	15239	NE1	TRP	I	84	20.325	116.546	201.915	1.00149.95	I
ATOM	15240	CZ2	TRP	I	84	19.552	116.424	199.528	1.00147.90	I
ATOM	15241	CZ3	TRP	I	84	17.825	118.046	199.025	1.00147.45	I
ATOM	15242	CH2	TRP	I	84	18.675	116.998	198.641	1.00146.81	I
ATOM	15243	C	TRP	I	84	18.267	121.663	204.156	1.00157.06	I
ATOM	15244	O	TRP	I	84	18.085	121.712	205.372	1.00155.84	I
ATOM	15245	N	MET	I	85	17.738	122.529	203.301	1.00159.12	I
ATOM	15246	CA	MET	I	85	16.883	123.620	203.736	1.00161.03	I
ATOM	15247	CB	MET	I	85	17.193	124.873	202.917	1.00161.76	I
ATOM	15248	CG	MET	I	85	16.199	125.998	203.125	1.00162.71	I
ATOM	15249	SD	MET	I	85	16.158	126.590	204.833	1.00163.31	I
ATOM	15250	CE	MET	I	85	16.055	128.361	204.564	1.00161.71	I
ATOM	15251	C	MET	I	85	15.410	123.253	203.582	1.00161.67	I
ATOM	15252	O	MET	I	85	14.964	122.889	202.492	1.00161.62	I
ATOM	15253	N	ASN	I	86	14.658	123.352	204.675	1.00162.35	I
ATOM	15254	CA	ASN	I	86	13.235	123.035	204.648	1.00163.57	I
ATOM	15255	CB	ASN	I	86	12.940	121.811	205.517	1.00163.61	I
ATOM	15256	CG	ASN	I	86	13.641	120.564	205.019	1.00163.44	I
ATOM	15257	OD1	ASN	I	86	14.860	120.437	205.133	1.00163.07	I
ATOM	15258	ND2	ASN	I	86	12.873	119.637	204.455	1.00161.86	I
ATOM	15259	C	ASN	I	86	12.375	124.201	205.110	1.00164.52	I
ATOM	15260	O	ASN	I	86	12.649	124.820	206.138	1.00164.30	I
ATOM	15261	N	VAL	I	87	11.333	124.488	204.337	1.00166.10	I
ATOM	15262	CA	VAL	I	87	10.400	125.569	204.640	1.00167.39	I
ATOM	15263	CB	VAL	I	87	10.457	126.676	203.562	1.00168.85	I

ATOM	15264	CG1	VAL	I	87	9.448	127.772	203.881	1.00169.58	I
ATOM	15265	CG2	VAL	I	87	11.864	127.256	203.487	1.00169.20	I
ATOM	15266	C	VAL	I	87	8.992	124.984	204.687	1.00166.84	I
ATOM	15267	O	VAL	I	87	8.449	124.566	203.664	1.00165.54	I
ATOM	15268	N	LYS	I	88	8.412	124.959	205.882	1.00167.40	I
ATOM	15269	CA	LYS	I	88	7.078	124.405	206.084	1.00168.39	I
ATOM	15270	CB	LYS	I	88	7.023	123.668	207.424	1.00168.74	I
ATOM	15271	CG	LYS	I	88	5.659	123.095	207.767	1.00169.18	I
ATOM	15272	CD	LYS	I	88	5.665	122.470	209.150	1.00168.97	I
ATOM	15273	CE	LYS	I	88	4.292	121.931	209.517	1.00168.70	I
ATOM	15274	NZ	LYS	I	88	4.245	121.499	210.939	1.00167.66	I
ATOM	15275	C	LYS	I	88	5.966	125.444	206.039	1.00168.82	I
ATOM	15276	O	LYS	I	88	6.013	126.447	206.748	1.00168.43	I
ATOM	15277	N	ALA	I	89	4.961	125.184	205.209	1.00170.31	I
ATOM	15278	CA	ALA	I	89	3.816	126.077	205.068	1.00172.08	I
ATOM	15279	CB	ALA	I	89	3.428	126.200	203.598	1.00172.01	I
ATOM	15280	C	ALA	I	89	2.638	125.545	205.881	1.00173.11	I
ATOM	15281	O	ALA	I	89	1.976	124.587	205.481	1.00172.79	I
ATOM	15282	N	ILE	I	90	2.382	126.173	207.024	1.00175.09	I
ATOM	15283	CA	ILE	I	90	1.291	125.761	207.903	1.00177.26	I
ATOM	15284	CB	ILE	I	90	1.698	125.884	209.391	1.00177.21	I
ATOM	15285	CG2	ILE	I	90	0.600	125.313	210.275	1.00176.17	I
ATOM	15286	CG1	ILE	I	90	3.024	125.156	209.638	1.00177.49	I
ATOM	15287	CD1	ILE	I	90	3.570	125.309	211.053	1.00176.78	I
ATOM	15288	C	ILE	I	90	0.034	126.603	207.688	1.00178.98	I
ATOM	15289	O	ILE	I	90	0.051	127.821	207.871	1.00179.17	I
ATOM	15290	N	PRO	I	91	-1.076	125.961	207.294	1.00180.46	I
ATOM	15291	CD	PRO	I	91	-1.221	124.543	206.921	1.00180.66	I
ATOM	15292	CA	PRO	I	91	-2.327	126.688	207.068	1.00181.81	I
ATOM	15293	CB	PRO	I	91	-3.160	125.688	206.277	1.00181.19	I
ATOM	15294	CG	PRO	I	91	-2.721	124.386	206.845	1.00180.89	I
ATOM	15295	C	PRO	I	91	-2.988	127.090	208.385	1.00183.52	I
ATOM	15296	O	PRO	I	91	-2.305	127.349	209.376	1.00183.74	I
ATOM	15297	N	SER	I	92	-4.317	127.135	208.392	1.00185.20	I
ATOM	15298	CA	SER	I	92	-5.066	127.513	209.588	1.00186.28	I
ATOM	15299	CB	SER	I	92	-5.738	128.870	209.372	1.00185.68	I
ATOM	15300	OG	SER	I	92	-5.024	129.641	208.416	1.00184.76	I
ATOM	15301	C	SER	I	92	-6.135	126.469	209.901	1.00187.34	I
ATOM	15302	O	SER	I	92	-6.654	125.815	209.000	1.00187.02	I
ATOM	15303	N	MET	I	93	-6.466	126.320	211.178	1.00188.86	I
ATOM	15304	CA	MET	I	93	-7.480	125.357	211.590	1.00190.80	I
ATOM	15305	CB	MET	I	93	-7.377	125.108	213.101	1.00191.34	I
ATOM	15306	CG	MET	I	93	-7.882	123.743	213.573	1.00192.51	I
ATOM	15307	SD	MET	I	93	-9.678	123.508	213.466	1.00194.34	I
ATOM	15308	CE	MET	I	93	-10.151	123.688	215.198	1.00194.16	I
ATOM	15309	C	MET	I	93	-8.848	125.938	211.237	1.00192.15	I
ATOM	15310	O	MET	I	93	-9.166	127.065	211.620	1.00192.07	I
ATOM	15311	N	ASP	I	94	-9.647	125.171	210.496	1.00193.61	I
ATOM	15312	CA	ASP	I	94	-10.980	125.616	210.086	1.00194.42	I
ATOM	15313	CB	ASP	I	94	-11.486	124.816	208.876	1.00194.41	I
ATOM	15314	CG	ASP	I	94	-10.633	125.011	207.637	1.00194.48	I
ATOM	15315	OD1	ASP	I	94	-11.108	124.660	206.530	1.00193.89	I
ATOM	15316	OD2	ASP	I	94	-9.489	125.504	207.768	1.00194.88	I
ATOM	15317	C	ASP	I	94	-11.999	125.474	211.209	1.00194.88	I
ATOM	15318	O	ASP	I	94	-12.362	124.359	211.591	1.00195.07	I
ATOM	15319	N	LYS	I	95	-12.463	126.605	211.734	1.00195.02	I
ATOM	15320	CA	LYS	I	95	-13.459	126.587	212.797	1.00194.92	I
ATOM	15321	CB	LYS	I	95	-13.513	127.942	213.514	1.00194.62	I

ATOM	15322	CG	LYS	I	95	-12.248	128.297	214.293	1.00193.17	I
ATOM	15323	CD	LYS	I	95	-11.109	128.726	213.382	1.00191.41	I
ATOM	15324	CE	LYS	I	95	-11.417	130.044	212.691	1.00190.10	I
ATOM	15325	NZ	LYS	I	95	-10.279	130.493	211.846	1.00189.00	I
ATOM	15326	C	LYS	I	95	-14.816	126.279	212.163	1.00194.76	I
ATOM	15327	O	LYS	I	95	-15.840	126.214	212.853	1.00195.07	I
ATOM	15328	N	SER	I	96	-14.803	126.082	210.843	1.00193.74	I
ATOM	15329	CA	SER	I	96	-16.010	125.780	210.071	1.00192.21	I
ATOM	15330	CB	SER	I	96	-16.000	126.558	208.753	1.00191.05	I
ATOM	15331	OG	SER	I	96	-14.944	126.122	207.902	1.00188.68	I
ATOM	15332	C	SER	I	96	-16.129	124.284	209.769	1.00191.60	I
ATOM	15333	O	SER	I	96	-17.188	123.805	209.362	1.00191.55	I
ATOM	15334	N	LYS	I	97	-15.038	123.553	209.975	1.00190.66	I
ATOM	15335	CA	LYS	I	97	-15.016	122.119	209.734	1.00189.45	I
ATOM	15336	CB	LYS	I	97	-13.988	121.789	208.647	1.00188.04	I
ATOM	15337	CG	LYS	I	97	-13.989	122.744	207.458	1.00185.78	I
ATOM	15338	CD	LYS	I	97	-15.348	122.807	206.788	1.00184.04	I
ATOM	15339	CE	LYS	I	97	-15.352	123.847	205.685	1.00182.51	I
ATOM	15340	NZ	LYS	I	97	-16.690	123.984	205.051	1.00181.44	I
ATOM	15341	C	LYS	I	97	-14.663	121.403	211.036	1.00189.54	I
ATOM	15342	O	LYS	I	97	-14.406	120.199	211.050	1.00189.20	I
ATOM	15343	N	LEU	I	98	-14.656	122.165	212.127	1.00189.97	I
ATOM	15344	CA	LEU	I	98	-14.341	121.644	213.454	1.00190.55	I
ATOM	15345	CB	LEU	I	98	-14.548	122.758	214.500	1.00189.91	I
ATOM	15346	CG	LEU	I	98	-14.411	122.489	216.008	1.00189.14	I
ATOM	15347	CD1	LEU	I	98	-15.628	121.733	216.507	1.00188.41	I
ATOM	15348	CD2	LEU	I	98	-13.128	121.728	216.300	1.00189.16	I
ATOM	15349	C	LEU	I	98	-15.151	120.405	213.821	1.00190.99	I
ATOM	15350	O	LEU	I	98	-14.640	119.486	214.457	1.00190.80	I
ATOM	15351	N	THR	I	99	-16.417	120.385	213.423	1.00191.65	I
ATOM	15352	CA	THR	I	99	-17.290	119.253	213.733	1.00192.32	I
ATOM	15353	CB	THR	I	99	-18.746	119.706	213.995	1.00192.66	I
ATOM	15354	OG1	THR	I	99	-19.385	119.995	212.744	1.00193.14	I
ATOM	15355	CG2	THR	I	99	-18.766	120.966	214.834	1.00192.44	I
ATOM	15356	C	THR	I	99	-17.327	118.257	212.575	1.00192.44	I
ATOM	15357	O	THR	I	99	-18.365	117.665	212.291	1.00191.97	I
ATOM	15358	N	GLU	I	100	-16.190	118.061	211.916	1.00192.99	I
ATOM	15359	CA	GLU	I	100	-16.131	117.139	210.789	1.00193.55	I
ATOM	15360	CB	GLU	I	100	-16.423	117.909	209.498	1.00193.44	I
ATOM	15361	CG	GLU	I	100	-17.738	118.665	209.501	1.00192.28	I
ATOM	15362	CD	GLU	I	100	-17.776	119.733	208.432	1.00191.81	I
ATOM	15363	OE1	GLU	I	100	-17.589	119.389	207.247	1.00191.80	I
ATOM	15364	OE2	GLU	I	100	-17.993	120.913	208.777	1.00191.36	I
ATOM	15365	C	GLU	I	100	-14.816	116.366	210.643	1.00193.94	I
ATOM	15366	O	GLU	I	100	-13.865	116.569	211.399	1.00193.82	I
ATOM	15367	N	ASN	I	101	-14.795	115.489	209.640	1.00194.11	I
ATOM	15368	CA	ASN	I	101	-13.649	114.649	209.314	1.00193.78	I
ATOM	15369	CB	ASN	I	101	-14.125	113.251	208.908	1.00195.95	I
ATOM	15370	CG	ASN	I	101	-14.807	112.514	210.049	1.00198.43	I
ATOM	15371	OD1	ASN	I	101	-15.525	113.118	210.849	1.00200.00	I
ATOM	15372	ND2	ASN	I	101	-14.602	111.200	210.120	1.00199.50	I
ATOM	15373	C	ASN	I	101	-12.859	115.268	208.166	1.00192.31	I
ATOM	15374	O	ASN	I	101	-13.139	115.002	206.992	1.00191.24	I
ATOM	15375	N	THR	I	102	-11.869	116.088	208.504	1.00191.23	I
ATOM	15376	CA	THR	I	102	-11.069	116.749	207.483	1.00189.70	I
ATOM	15377	CB	THR	I	102	-11.097	118.280	207.677	1.00189.27	I
ATOM	15378	OG1	THR	I	102	-10.401	118.627	208.881	1.00188.21	I
ATOM	15379	CG2	THR	I	102	-12.529	118.769	207.779	1.00189.87	I

ATOM	15380	C	THR	I	102	-9.615	116.291	207.427	1.00188.56	I
ATOM	15381	O	THR	I	102	-9.121	115.606	208.324	1.00189.10	I
ATOM	15382	N	LEU	I	103	-8.947	116.686	206.347	1.00186.46	I
ATOM	15383	CA	LEU	I	103	-7.546	116.358	206.107	1.00184.21	I
ATOM	15384	CB	LEU	I	103	-7.428	115.283	205.025	1.00183.28	I
ATOM	15385	CG	LEU	I	103	-6.003	115.018	204.532	1.00181.83	I
ATOM	15386	CD1	LEU	I	103	-5.171	114.388	205.638	1.00181.20	I
ATOM	15387	CD2	LEU	I	103	-6.053	114.109	203.322	1.00180.93	I
ATOM	15388	C	LEU	I	103	-6.779	117.594	205.651	1.00182.98	I
ATOM	15389	O	LEU	I	103	-7.016	118.104	204.554	1.00183.08	I
ATOM	15390	N	GLN	I	104	-5.859	118.069	206.488	1.00181.03	I
ATOM	15391	CA	GLN	I	104	-5.055	119.240	206.148	1.00178.35	I
ATOM	15392	CB	GLN	I	104	-5.105	120.284	207.271	1.00178.41	I
ATOM	15393	CG	GLN	I	104	-6.238	121.299	207.136	1.00177.73	I
ATOM	15394	CD	GLN	I	104	-6.058	122.501	208.048	1.00177.59	I
ATOM	15395	OE1	GLN	I	104	-6.835	123.455	207.998	1.00176.99	I
ATOM	15396	NE2	GLN	I	104	-5.029	122.459	208.887	1.00177.37	I
ATOM	15397	C	GLN	I	104	-3.601	118.891	205.836	1.00175.67	I
ATOM	15398	O	GLN	I	104	-2.969	118.098	206.534	1.00175.00	I
ATOM	15399	N	LEU	I	105	-3.077	119.500	204.779	1.00172.63	I
ATOM	15400	CA	LEU	I	105	-1.709	119.256	204.354	1.00169.96	I
ATOM	15401	CB	LEU	I	105	-1.692	118.876	202.874	1.00169.71	I
ATOM	15402	CG	LEU	I	105	-2.723	117.831	202.444	1.00169.74	I
ATOM	15403	CD1	LEU	I	105	-2.570	117.557	200.958	1.00170.20	I
ATOM	15404	CD2	LEU	I	105	-2.539	116.550	203.247	1.00170.75	I
ATOM	15405	C	LEU	I	105	-0.825	120.476	204.573	1.00168.21	I
ATOM	15406	O	LEU	I	105	-1.261	121.613	204.395	1.00168.07	I
ATOM	15407	N	ALA	I	106	0.419	120.229	204.966	1.00166.00	I
ATOM	15408	CA	ALA	I	106	1.382	121.298	205.195	1.00163.53	I
ATOM	15409	CB	ALA	I	106	1.908	121.243	206.628	1.00162.48	I
ATOM	15410	C	ALA	I	106	2.525	121.105	204.206	1.00161.95	I
ATOM	15411	O	ALA	I	106	3.543	120.495	204.534	1.00163.04	I
ATOM	15412	N	ILE	I	107	2.344	121.617	202.991	1.00159.34	I
ATOM	15413	CA	ILE	I	107	3.355	121.491	201.946	1.00156.74	I
ATOM	15414	CB	ILE	I	107	2.925	122.214	200.651	1.00155.70	I
ATOM	15415	CG2	ILE	I	107	3.943	121.956	199.551	1.00154.09	I
ATOM	15416	CG1	ILE	I	107	1.547	121.720	200.208	1.00154.82	I
ATOM	15417	CD1	ILE	I	107	1.482	120.238	199.920	1.00153.41	I
ATOM	15418	C	ILE	I	107	4.690	122.066	202.398	1.00155.64	I
ATOM	15419	O	ILE	I	107	4.756	123.187	202.907	1.00155.87	I
ATOM	15420	N	ILE	I	108	5.753	121.293	202.204	1.00153.94	I
ATOM	15421	CA	ILE	I	108	7.088	121.718	202.598	1.00152.42	I
ATOM	15422	CB	ILE	I	108	7.641	120.821	203.724	1.00153.45	I
ATOM	15423	CG2	ILE	I	108	8.976	121.371	204.219	1.00154.63	I
ATOM	15424	CG1	ILE	I	108	6.630	120.749	204.873	1.00154.54	I
ATOM	15425	CD1	ILE	I	108	7.007	119.779	205.984	1.00156.08	I
ATOM	15426	C	ILE	I	108	8.039	121.650	201.412	1.00150.74	I
ATOM	15427	O	ILE	I	108	7.894	120.799	200.534	1.00150.06	I
ATOM	15428	N	SER	I	109	9.009	122.555	201.386	1.00149.51	I
ATOM	15429	CA	SER	I	109	9.988	122.579	200.309	1.00148.26	I
ATOM	15430	CB	SER	I	109	9.964	123.928	199.584	1.00150.09	I
ATOM	15431	OG	SER	I	109	8.808	124.052	198.773	1.00151.00	I
ATOM	15432	C	SER	I	109	11.387	122.304	200.843	1.00145.58	I
ATOM	15433	O	SER	I	109	11.833	122.920	201.814	1.00144.38	I
ATOM	15434	N	ARG	I	110	12.068	121.361	200.204	1.00142.66	I
ATOM	15435	CA	ARG	I	110	13.416	120.988	200.595	1.00139.58	I
ATOM	15436	CB	ARG	I	110	13.441	119.536	201.089	1.00139.43	I
ATOM	15437	CG	ARG	I	110	14.792	118.869	200.933	1.00138.06	I

ATOM	15438	CD	ARG	I	110	14.872	117.515	201.614	1.00137.49	I
ATOM	15439	NE	ARG	I	110	14.977	117.644	203.063	1.00136.61	I
ATOM	15440	CZ	ARG	I	110	15.441	116.687	203.860	1.00136.48	I
ATOM	15441	NH1	ARG	I	110	15.844	115.529	203.346	1.00134.51	I
ATOM	15442	NH2	ARG	I	110	15.505	116.886	205.170	1.00136.43	I
ATOM	15443	C	ARG	I	110	14.385	121.164	199.429	1.00137.17	I
ATOM	15444	O	ARG	I	110	14.202	120.585	198.354	1.00136.33	I
ATOM	15445	N	ILE	I	111	15.412	121.980	199.648	1.00134.83	I
ATOM	15446	CA	ILE	I	111	16.416	122.238	198.626	1.00132.63	I
ATOM	15447	CB	ILE	I	111	16.228	123.634	197.980	1.00132.84	I
ATOM	15448	CG2	ILE	I	111	14.824	123.746	197.409	1.00133.70	I
ATOM	15449	CG1	ILE	I	111	16.467	124.744	199.007	1.00132.32	I
ATOM	15450	CD1	ILE	I	111	16.423	126.143	198.415	1.00126.90	I
ATOM	15451	C	ILE	I	111	17.819	122.141	199.207	1.00130.30	I
ATOM	15452	O	ILE	I	111	18.043	122.435	200.382	1.00128.83	I
ATOM	15453	N	LYS	I	112	18.760	121.729	198.366	1.00129.06	I
ATOM	15454	CA	LYS	I	112	20.148	121.565	198.773	1.00128.71	I
ATOM	15455	CB	LYS	I	112	20.943	120.931	197.633	1.00126.73	I
ATOM	15456	CG	LYS	I	112	20.327	119.648	197.113	1.00125.02	I
ATOM	15457	CD	LYS	I	112	21.062	119.141	195.891	1.00123.06	I
ATOM	15458	CE	LYS	I	112	20.361	117.932	195.301	1.00122.18	I
ATOM	15459	NZ	LYS	I	112	20.982	117.505	194.016	1.00121.28	I
ATOM	15460	C	LYS	I	112	20.820	122.866	199.191	1.00129.63	I
ATOM	15461	O	LYS	I	112	20.616	123.910	198.579	1.00129.90	I
ATOM	15462	N	LEU	I	113	21.628	122.782	200.243	1.00130.43	I
ATOM	15463	CA	LEU	I	113	22.369	123.920	200.772	1.00131.13	I
ATOM	15464	CB	LEU	I	113	21.788	124.345	202.122	1.00129.21	I
ATOM	15465	CG	LEU	I	113	22.644	125.215	203.047	1.00127.17	I
ATOM	15466	CD1	LEU	I	113	23.169	126.441	202.319	1.00127.26	I
ATOM	15467	CD2	LEU	I	113	21.793	125.627	204.232	1.00127.34	I
ATOM	15468	C	LEU	I	113	23.817	123.485	200.939	1.00132.88	I
ATOM	15469	O	LEU	I	113	24.135	122.690	201.820	1.00133.75	I
ATOM	15470	N	TYR	I	114	24.693	124.012	200.092	1.00135.70	I
ATOM	15471	CA	TYR	I	114	26.101	123.642	200.135	1.00139.22	I
ATOM	15472	CB	TYR	I	114	26.640	123.487	198.716	1.00142.26	I
ATOM	15473	CG	TYR	I	114	25.994	122.366	197.952	1.00145.81	I
ATOM	15474	CD1	TYR	I	114	25.285	122.616	196.779	1.00146.52	I
ATOM	15475	CE1	TYR	I	114	24.676	121.586	196.076	1.00148.69	I
ATOM	15476	CD2	TYR	I	114	26.081	121.052	198.408	1.00148.02	I
ATOM	15477	CE2	TYR	I	114	25.477	120.013	197.712	1.00149.89	I
ATOM	15478	CZ	TYR	I	114	24.775	120.286	196.546	1.00149.61	I
ATOM	15479	OH	TYR	I	114	24.177	119.260	195.847	1.00149.78	I
ATOM	15480	C	TYR	I	114	27.029	124.568	200.900	1.00139.76	I
ATOM	15481	O	TYR	I	114	27.119	125.761	200.609	1.00139.24	I
ATOM	15482	N	TYR	I	115	27.725	124.004	201.880	1.00141.44	I
ATOM	15483	CA	TYR	I	115	28.688	124.765	202.658	1.00144.20	I
ATOM	15484	CB	TYR	I	115	28.908	124.137	204.034	1.00143.49	I
ATOM	15485	CG	TYR	I	115	29.919	124.882	204.881	1.00143.18	I
ATOM	15486	CD1	TYR	I	115	29.672	126.194	205.304	1.00144.14	I
ATOM	15487	CE1	TYR	I	115	30.598	126.890	206.082	1.00144.04	I
ATOM	15488	CD2	TYR	I	115	31.125	124.280	205.258	1.00142.02	I
ATOM	15489	CE2	TYR	I	115	32.059	124.964	206.036	1.00141.77	I
ATOM	15490	CZ	TYR	I	115	31.789	126.268	206.444	1.00143.00	I
ATOM	15491	OH	TYR	I	115	32.703	126.947	207.217	1.00141.56	I
ATOM	15492	C	TYR	I	115	29.978	124.697	201.855	1.00146.64	I
ATOM	15493	O	TYR	I	115	30.823	123.837	202.097	1.00146.11	I
ATOM	15494	N	ARG	I	116	30.109	125.601	200.889	1.00150.43	I
ATOM	15495	CA	ARG	I	116	31.283	125.653	200.024	1.00153.90	I

ATOM	15496	CB	ARG	I	116	30.882	126.178	198.647	1.00154.48	I
ATOM	15497	CG	ARG	I	116	32.025	126.294	197.655	1.00155.80	I
ATOM	15498	CD	ARG	I	116	31.533	126.905	196.351	1.00158.01	I
ATOM	15499	NE	ARG	I	116	30.472	126.103	195.747	1.00158.62	I
ATOM	15500	CZ	ARG	I	116	29.757	126.481	194.691	1.00157.95	I
ATOM	15501	NH1	ARG	I	116	29.988	127.657	194.117	1.00156.30	I
ATOM	15502	NH2	ARG	I	116	28.812	125.683	194.207	1.00157.86	I
ATOM	15503	C	ARG	I	116	32.386	126.537	200.604	1.00156.36	I
ATOM	15504	O	ARG	I	116	32.298	127.766	200.558	1.00156.60	I
ATOM	15505	N	PRO	I	117	33.444	125.918	201.152	1.00158.42	I
ATOM	15506	CD	PRO	I	117	33.634	124.463	201.288	1.00158.91	I
ATOM	15507	CA	PRO	I	117	34.573	126.640	201.745	1.00159.43	I
ATOM	15508	CB	PRO	I	117	35.571	125.526	202.043	1.00159.58	I
ATOM	15509	CG	PRO	I	117	34.678	124.378	202.376	1.00158.80	I
ATOM	15510	C	PRO	I	117	35.145	127.689	200.800	1.00160.07	I
ATOM	15511	O	PRO	I	117	35.770	127.351	199.797	1.00159.83	I
ATOM	15512	N	ALA	I	118	34.922	128.959	201.122	1.00160.68	I
ATOM	15513	CA	ALA	I	118	35.427	130.050	200.301	1.00161.20	I
ATOM	15514	CB	ALA	I	118	34.860	131.377	200.795	1.00159.57	I
ATOM	15515	C	ALA	I	118	36.951	130.057	200.378	1.00162.51	I
ATOM	15516	O	ALA	I	118	37.540	130.887	201.067	1.00162.62	I
ATOM	15517	N	LYS	I	119	37.577	129.117	199.672	1.00164.60	I
ATOM	15518	CA	LYS	I	119	39.034	128.978	199.645	1.00166.59	I
ATOM	15519	CB	LYS	I	119	39.564	128.699	201.058	1.00167.30	I
ATOM	15520	CG	LYS	I	119	41.036	129.027	201.269	1.00167.78	I
ATOM	15521	CD	LYS	I	119	41.253	130.530	201.265	1.00168.91	I
ATOM	15522	CE	LYS	I	119	42.674	130.896	201.661	1.00169.89	I
ATOM	15523	NZ	LYS	I	119	42.846	132.373	201.787	1.00171.06	I
ATOM	15524	C	LYS	I	119	39.397	127.806	198.729	1.00167.65	I
ATOM	15525	O	LYS	I	119	40.505	127.274	198.798	1.00168.02	I
ATOM	15526	N	LEU	I	120	38.453	127.413	197.876	1.00168.37	I
ATOM	15527	CA	LEU	I	120	38.645	126.293	196.957	1.00169.23	I
ATOM	15528	CB	LEU	I	120	37.296	125.622	196.672	1.00168.79	I
ATOM	15529	CG	LEU	I	120	36.495	125.168	197.899	1.00168.66	I
ATOM	15530	CD1	LEU	I	120	35.181	124.548	197.452	1.00167.84	I
ATOM	15531	CD2	LEU	I	120	37.305	124.167	198.714	1.00168.42	I
ATOM	15532	C	LEU	I	120	39.311	126.700	195.644	1.00169.87	I
ATOM	15533	O	LEU	I	120	39.014	127.758	195.083	1.00170.06	I
ATOM	15534	N	ALA	I	121	40.213	125.847	195.162	1.00170.36	I
ATOM	15535	CA	ALA	I	121	40.941	126.094	193.922	1.00170.62	I
ATOM	15536	CB	ALA	I	121	42.107	125.115	193.799	1.00170.63	I
ATOM	15537	C	ALA	I	121	40.028	125.969	192.708	1.00170.80	I
ATOM	15538	O	ALA	I	121	39.486	126.965	192.221	1.00170.57	I
ATOM	15539	N	LEU	I	122	39.871	124.742	192.219	1.00170.73	I
ATOM	15540	CA	LEU	I	122	39.024	124.473	191.064	1.00171.37	I
ATOM	15541	CB	LEU	I	122	38.777	122.967	190.943	1.00170.72	I
ATOM	15542	CG	LEU	I	122	37.663	122.535	189.989	1.00170.66	I
ATOM	15543	CD1	LEU	I	122	37.952	123.058	188.598	1.00170.06	I
ATOM	15544	CD2	LEU	I	122	37.553	121.024	189.979	1.00170.86	I
ATOM	15545	C	LEU	I	122	37.684	125.203	191.159	1.00172.36	I
ATOM	15546	O	LEU	I	122	36.831	124.838	191.968	1.00173.21	I
ATOM	15547	N	PRO	I	123	37.482	126.246	190.332	1.00172.48	I
ATOM	15548	CD	PRO	I	123	38.341	126.721	189.235	1.00172.06	I
ATOM	15549	CA	PRO	I	123	36.218	126.992	190.365	1.00172.39	I
ATOM	15550	CB	PRO	I	123	36.426	128.063	189.297	1.00171.76	I
ATOM	15551	CG	PRO	I	123	37.342	127.391	188.323	1.00171.38	I
ATOM	15552	C	PRO	I	123	35.023	126.073	190.072	1.00172.42	I
ATOM	15553	O	PRO	I	123	35.129	125.138	189.274	1.00172.39	I

ATOM	15554	N	PRO	I	124	33.868	126.338	190.709	1.00171.90	I
ATOM	15555	CD	PRO	I	124	33.568	127.563	191.470	1.00171.12	I
ATOM	15556	CA	PRO	I	124	32.651	125.535	190.528	1.00171.22	I
ATOM	15557	CB	PRO	I	124	31.574	126.374	191.224	1.00170.24	I
ATOM	15558	CG	PRO	I	124	32.115	127.769	191.161	1.00170.17	I
ATOM	15559	C	PRO	I	124	32.274	125.168	189.089	1.00171.00	I
ATOM	15560	O	PRO	I	124	31.885	124.032	188.812	1.00170.49	I
ATOM	15561	N	ASP	I	125	32.394	126.129	188.181	1.00171.24	I
ATOM	15562	CA	ASP	I	125	32.054	125.915	186.776	1.00171.17	I
ATOM	15563	CB	ASP	I	125	32.175	127.235	186.010	1.00173.36	I
ATOM	15564	CG	ASP	I	125	33.540	127.882	186.173	1.00175.58	I
ATOM	15565	OD1	ASP	I	125	34.552	127.243	185.812	1.00177.27	I
ATOM	15566	OD2	ASP	I	125	33.600	129.033	186.660	1.00176.54	I
ATOM	15567	C	ASP	I	125	32.908	124.852	186.082	1.00169.98	I
ATOM	15568	O	ASP	I	125	32.435	124.155	185.183	1.00169.37	I
ATOM	15569	N	GLN	I	126	34.162	124.733	186.504	1.00169.02	I
ATOM	15570	CA	GLN	I	126	35.094	123.776	185.917	1.00167.87	I
ATOM	15571	CB	GLN	I	126	36.502	124.377	185.950	1.00167.31	I
ATOM	15572	CG	GLN	I	126	37.560	123.614	185.172	1.00166.30	I
ATOM	15573	CD	GLN	I	126	38.905	124.325	185.182	1.00165.54	I
ATOM	15574	OE1	GLN	I	126	39.897	123.812	184.663	1.00164.84	I
ATOM	15575	NE2	GLN	I	126	38.941	125.515	185.775	1.00164.99	I
ATOM	15576	C	GLN	I	126	35.067	122.434	186.649	1.00167.22	I
ATOM	15577	O	GLN	I	126	36.070	121.721	186.708	1.00166.05	I
ATOM	15578	N	ALA	I	127	33.904	122.085	187.189	1.00167.57	I
ATOM	15579	CA	ALA	I	127	33.749	120.842	187.935	1.00167.95	I
ATOM	15580	CB	ALA	I	127	32.959	121.109	189.212	1.00167.75	I
ATOM	15581	C	ALA	I	127	33.095	119.700	187.152	1.00168.20	I
ATOM	15582	O	ALA	I	127	33.538	118.555	187.239	1.00168.80	I
ATOM	15583	N	ALA	I	128	32.045	120.008	186.394	1.00168.08	I
ATOM	15584	CA	ALA	I	128	31.325	118.993	185.622	1.00167.45	I
ATOM	15585	CB	ALA	I	128	30.139	119.635	184.902	1.00167.41	I
ATOM	15586	C	ALA	I	128	32.175	118.205	184.621	1.00167.46	I
ATOM	15587	O	ALA	I	128	31.837	117.069	184.286	1.00167.33	I
ATOM	15588	N	GLU	I	129	33.267	118.798	184.139	1.00167.58	I
ATOM	15589	CA	GLU	I	129	34.131	118.116	183.175	1.00167.16	I
ATOM	15590	CB	GLU	I	129	35.097	119.099	182.505	1.00165.87	I
ATOM	15591	CG	GLU	I	129	34.574	120.512	182.332	1.00163.71	I
ATOM	15592	CD	GLU	I	129	35.167	121.475	183.346	1.00163.24	I
ATOM	15593	OE1	GLU	I	129	34.838	122.677	183.282	1.00163.52	I
ATOM	15594	OE2	GLU	I	129	35.964	121.032	184.202	1.00161.42	I
ATOM	15595	C	GLU	I	129	34.952	117.045	183.886	1.00167.93	I
ATOM	15596	O	GLU	I	129	35.173	115.952	183.355	1.00167.81	I
ATOM	15597	N	LYS	I	130	35.399	117.380	185.093	1.00168.69	I
ATOM	15598	CA	LYS	I	130	36.210	116.493	185.920	1.00168.95	I
ATOM	15599	CB	LYS	I	130	36.604	117.217	187.212	1.00167.62	I
ATOM	15600	CG	LYS	I	130	37.029	118.664	187.011	1.00165.41	I
ATOM	15601	CD	LYS	I	130	38.213	118.766	186.069	1.00163.58	I
ATOM	15602	CE	LYS	I	130	38.578	120.210	185.802	1.00162.49	I
ATOM	15603	NZ	LYS	I	130	39.719	120.301	184.857	1.00161.70	I
ATOM	15604	C	LYS	I	130	35.495	115.192	186.273	1.00169.75	I
ATOM	15605	O	LYS	I	130	36.042	114.351	186.984	1.00169.67	I
ATOM	15606	N	LEU	I	131	34.273	115.027	185.780	1.00171.02	I
ATOM	15607	CA	LEU	I	131	33.500	113.828	186.065	1.00171.81	I
ATOM	15608	CB	LEU	I	131	32.003	114.127	185.942	1.00171.23	I
ATOM	15609	CG	LEU	I	131	31.012	113.037	186.365	1.00170.25	I
ATOM	15610	CD1	LEU	I	131	31.220	112.682	187.830	1.00169.85	I
ATOM	15611	CD2	LEU	I	131	29.592	113.532	186.142	1.00169.79	I

ATOM	15612	C	LEU	I	131	33.879	112.682	185.132	1.00172.78	I
ATOM	15613	O	LEU	I	131	33.580	112.711	183.936	1.00173.26	I
ATOM	15614	N	ARG	I	132	34.553	111.683	185.692	1.00173.27	I
ATOM	15615	CA	ARG	I	132	34.968	110.505	184.939	1.00173.49	I
ATOM	15616	CB	ARG	I	132	36.387	110.092	185.338	1.00172.74	I
ATOM	15617	CG	ARG	I	132	37.413	111.221	185.288	1.00170.52	I
ATOM	15618	CD	ARG	I	132	38.655	110.848	186.098	1.00169.27	I
ATOM	15619	NE	ARG	I	132	39.501	112.001	186.397	1.00167.10	I
ATOM	15620	CZ	ARG	I	132	40.479	111.995	187.299	1.00165.41	I
ATOM	15621	NH1	ARG	I	132	40.741	110.895	187.997	1.00164.42	I
ATOM	15622	NH2	ARG	I	132	41.195	113.093	187.509	1.00164.78	I
ATOM	15623	C	ARG	I	132	33.972	109.409	185.309	1.00174.23	I
ATOM	15624	O	ARG	I	132	33.017	109.670	186.038	1.00174.05	I
ATOM	15625	N	PHE	I	133	34.182	108.190	184.820	1.00175.71	I
ATOM	15626	CA	PHE	I	133	33.256	107.098	185.122	1.00176.89	I
ATOM	15627	CB	PHE	I	133	32.240	106.931	183.984	1.00178.61	I
ATOM	15628	CG	PHE	I	133	31.380	108.140	183.747	1.00179.73	I
ATOM	15629	CD1	PHE	I	133	31.906	109.283	183.152	1.00179.97	I
ATOM	15630	CD2	PHE	I	133	30.042	108.139	184.125	1.00180.15	I
ATOM	15631	CE1	PHE	I	133	31.114	110.404	182.937	1.00180.32	I
ATOM	15632	CE2	PHE	I	133	29.241	109.256	183.913	1.00180.50	I
ATOM	15633	CZ	PHE	I	133	29.779	110.391	183.318	1.00180.71	I
ATOM	15634	C	PHE	I	133	33.905	105.741	185.389	1.00176.58	I
ATOM	15635	O	PHE	I	133	35.075	105.644	185.755	1.00176.82	I
ATOM	15636	N	ARG	I	134	33.104	104.697	185.199	1.00175.74	I
ATOM	15637	CA	ARG	I	134	33.507	103.308	185.388	1.00175.46	I
ATOM	15638	CB	ARG	I	134	33.785	103.013	186.857	1.00173.48	I
ATOM	15639	CG	ARG	I	134	34.117	101.556	187.135	1.00169.85	I
ATOM	15640	CD	ARG	I	134	34.135	101.296	188.623	1.00166.98	I
ATOM	15641	NE	ARG	I	134	34.963	102.277	189.311	1.00164.72	I
ATOM	15642	CZ	ARG	I	134	35.023	102.408	190.631	1.00163.50	I
ATOM	15643	NH1	ARG	I	134	34.300	101.615	191.413	1.00161.69	I
ATOM	15644	NH2	ARG	I	134	35.803	103.335	191.170	1.00162.48	I
ATOM	15645	C	ARG	I	134	32.302	102.506	184.941	1.00176.68	I
ATOM	15646	O	ARG	I	134	31.527	102.017	185.766	1.00176.73	I
ATOM	15647	N	ARG	I	135	32.148	102.372	183.630	1.00178.87	I
ATOM	15648	CA	ARG	I	135	31.002	101.672	183.075	1.00181.24	I
ATOM	15649	CB	ARG	I	135	30.630	102.308	181.729	1.00182.12	I
ATOM	15650	CG	ARG	I	135	31.470	101.886	180.531	1.00182.71	I
ATOM	15651	CD	ARG	I	135	30.648	100.928	179.697	1.00182.64	I
ATOM	15652	NE	ARG	I	135	29.300	101.466	179.570	1.00182.07	I
ATOM	15653	CZ	ARG	I	135	28.206	100.736	179.397	1.00181.50	I
ATOM	15654	NH1	ARG	I	135	27.030	101.342	179.303	1.00181.70	I
ATOM	15655	NH2	ARG	I	135	28.282	99.411	179.322	1.00180.62	I
ATOM	15656	C	ARG	I	135	31.159	100.159	182.931	1.00182.28	I
ATOM	15657	O	ARG	I	135	32.005	99.674	182.179	1.00182.88	I
ATOM	15658	N	SER	I	136	30.331	99.423	183.672	1.00182.78	I
ATOM	15659	CA	SER	I	136	30.331	97.961	183.644	1.00183.13	I
ATOM	15660	CB	SER	I	136	30.117	97.394	185.057	1.00182.28	I
ATOM	15661	OG	SER	I	136	31.157	97.774	185.942	1.00181.25	I
ATOM	15662	C	SER	I	136	29.198	97.487	182.731	1.00183.43	I
ATOM	15663	O	SER	I	136	29.015	98.005	181.626	1.00183.63	I
ATOM	15664	N	ALA	I	137	28.443	96.499	183.197	1.00183.33	I
ATOM	15665	CA	ALA	I	137	27.317	95.966	182.442	1.00182.95	I
ATOM	15666	CB	ALA	I	137	27.563	94.507	182.083	1.00182.62	I
ATOM	15667	C	ALA	I	137	26.092	96.091	183.338	1.00182.73	I
ATOM	15668	O	ALA	I	137	24.968	95.786	182.933	1.00183.15	I
ATOM	15669	N	ASN	I	138	26.335	96.543	184.567	1.00182.01	I

ATOM	15670	CA	ASN	I	138	25.287	96.737	185.561	1.00180.83	I
ATOM	15671	CB	ASN	I	138	24.772	95.381	186.069	1.00182.06	I
ATOM	15672	CG	ASN	I	138	25.869	94.520	186.692	1.00183.99	I
ATOM	15673	OD1	ASN	I	138	26.582	94.950	187.604	1.00185.89	I
ATOM	15674	ND2	ASN	I	138	25.998	93.291	186.206	1.00184.49	I
ATOM	15675	C	ASN	I	138	25.768	97.582	186.746	1.00179.26	I
ATOM	15676	O	ASN	I	138	24.990	97.892	187.650	1.00179.19	I
ATOM	15677	N	SER	I	139	27.043	97.962	186.740	1.00176.92	I
ATOM	15678	CA	SER	I	139	27.595	98.754	187.836	1.00174.59	I
ATOM	15679	CB	SER	I	139	28.501	97.875	188.706	1.00173.36	I
ATOM	15680	OG	SER	I	139	27.769	96.815	189.294	1.00170.77	I
ATOM	15681	C	SER	I	139	28.368	99.993	187.386	1.00173.66	I
ATOM	15682	O	SER	I	139	29.555	100.132	187.683	1.00173.77	I
ATOM	15683	N	LEU	I	140	27.694	100.893	186.673	1.00172.06	I
ATOM	15684	CA	LEU	I	140	28.333	102.123	186.208	1.00170.44	I
ATOM	15685	CB	LEU	I	140	27.386	102.898	185.284	1.00169.13	I
ATOM	15686	CG	LEU	I	140	27.942	104.098	184.508	1.00168.02	I
ATOM	15687	CD1	LEU	I	140	26.907	104.563	183.497	1.00167.48	I
ATOM	15688	CD2	LEU	I	140	28.307	105.227	185.463	1.00167.67	I
ATOM	15689	C	LEU	I	140	28.666	102.951	187.447	1.00169.77	I
ATOM	15690	O	LEU	I	140	27.819	103.137	188.317	1.00169.91	I
ATOM	15691	N	THR	I	141	29.895	103.449	187.526	1.00169.23	I
ATOM	15692	CA	THR	I	141	30.319	104.224	188.685	1.00168.37	I
ATOM	15693	CB	THR	I	141	31.570	103.596	189.337	1.00168.29	I
ATOM	15694	OG1	THR	I	141	31.318	102.213	189.618	1.00168.75	I
ATOM	15695	CG2	THR	I	141	31.921	104.320	190.630	1.00167.19	I
ATOM	15696	C	THR	I	141	30.625	105.692	188.402	1.00167.95	I
ATOM	15697	O	THR	I	141	31.647	106.023	187.795	1.00167.75	I
ATOM	15698	N	LEU	I	142	29.732	106.567	188.855	1.00167.45	I
ATOM	15699	CA	LEU	I	142	29.910	108.005	188.688	1.00166.68	I
ATOM	15700	CB	LEU	I	142	28.603	108.750	188.992	1.00167.92	I
ATOM	15701	CG	LEU	I	142	27.385	108.583	188.071	1.00168.46	I
ATOM	15702	CD1	LEU	I	142	27.666	109.238	186.735	1.00168.73	I
ATOM	15703	CD2	LEU	I	142	27.049	107.110	187.894	1.00168.68	I
ATOM	15704	C	LEU	I	142	30.987	108.423	189.688	1.00165.10	I
ATOM	15705	O	LEU	I	142	30.856	108.181	190.885	1.00163.49	I
ATOM	15706	N	ILE	I	143	32.052	109.045	189.195	1.00164.07	I
ATOM	15707	CA	ILE	I	143	33.146	109.470	190.061	1.00162.64	I
ATOM	15708	CB	ILE	I	143	34.411	108.596	189.805	1.00162.83	I
ATOM	15709	CG2	ILE	I	143	34.592	108.361	188.314	1.00162.68	I
ATOM	15710	CG1	ILE	I	143	35.650	109.251	190.422	1.00162.70	I
ATOM	15711	CD1	ILE	I	143	35.645	109.299	191.938	1.00162.14	I
ATOM	15712	C	ILE	I	143	33.497	110.953	189.917	1.00161.26	I
ATOM	15713	O	ILE	I	143	33.784	111.440	188.822	1.00160.66	I
ATOM	15714	N	ASN	I	144	33.472	111.661	191.042	1.00159.95	I
ATOM	15715	CA	ASN	I	144	33.785	113.083	191.073	1.00159.07	I
ATOM	15716	CB	ASN	I	144	32.555	113.884	191.504	1.00159.83	I
ATOM	15717	CG	ASN	I	144	32.909	115.271	192.001	1.00159.99	I
ATOM	15718	OD1	ASN	I	144	33.622	116.017	191.333	1.00159.62	I
ATOM	15719	ND2	ASN	I	144	32.407	115.624	193.178	1.00159.02	I
ATOM	15720	C	ASN	I	144	34.949	113.390	192.011	1.00158.42	I
ATOM	15721	O	ASN	I	144	34.852	113.195	193.222	1.00157.47	I
ATOM	15722	N	PRO	I	145	36.071	113.871	191.452	1.00158.55	I
ATOM	15723	CD	PRO	I	145	36.363	113.836	190.007	1.00158.55	I
ATOM	15724	CA	PRO	I	145	37.278	114.221	192.205	1.00158.81	I
ATOM	15725	CB	PRO	I	145	38.387	113.899	191.217	1.00158.63	I
ATOM	15726	CG	PRO	I	145	37.788	114.375	189.940	1.00158.20	I
ATOM	15727	C	PRO	I	145	37.314	115.688	192.644	1.00158.73	I

ATOM	15728	O	PRO	I	145	38.276	116.130	193.271	1.00158.38	I
ATOM	15729	N	THR	I	146	36.277	116.444	192.304	1.00158.58	I
ATOM	15730	CA	THR	I	146	36.219	117.850	192.682	1.00158.81	I
ATOM	15731	CB	THR	I	146	35.343	118.659	191.708	1.00159.36	I
ATOM	15732	OG1	THR	I	146	33.961	118.344	191.924	1.00160.23	I
ATOM	15733	CG2	THR	I	146	35.705	118.328	190.270	1.00159.70	I
ATOM	15734	C	THR	I	146	35.614	117.958	194.078	1.00158.96	I
ATOM	15735	O	THR	I	146	35.014	117.006	194.577	1.00159.48	I
ATOM	15736	N	PRO	I	147	35.769	119.120	194.730	1.00158.60	I
ATOM	15737	CD	PRO	I	147	36.663	120.233	194.360	1.00157.88	I
ATOM	15738	CA	PRO	I	147	35.220	119.321	196.076	1.00158.33	I
ATOM	15739	CB	PRO	I	147	36.121	120.409	196.642	1.00158.75	I
ATOM	15740	CG	PRO	I	147	36.372	121.259	195.439	1.00158.20	I
ATOM	15741	C	PRO	I	147	33.744	119.731	196.099	1.00158.30	I
ATOM	15742	O	PRO	I	147	33.248	120.211	197.121	1.00157.69	I
ATOM	15743	N	TYR	I	148	33.047	119.540	194.979	1.00158.91	I
ATOM	15744	CA	TYR	I	148	31.631	119.909	194.880	1.00158.68	I
ATOM	15745	CB	TYR	I	148	31.405	120.925	193.746	1.00160.55	I
ATOM	15746	CG	TYR	I	148	32.282	122.159	193.768	1.00162.35	I
ATOM	15747	CD1	TYR	I	148	33.590	122.121	193.278	1.00162.81	I
ATOM	15748	CE1	TYR	I	148	34.392	123.263	193.276	1.00163.09	I
ATOM	15749	CD2	TYR	I	148	31.797	123.373	194.259	1.00162.76	I
ATOM	15750	CE2	TYR	I	148	32.591	124.519	194.262	1.00162.57	I
ATOM	15751	CZ	TYR	I	148	33.884	124.458	193.770	1.00162.94	I
ATOM	15752	OH	TYR	I	148	34.665	125.593	193.778	1.00163.60	I
ATOM	15753	C	TYR	I	148	30.698	118.723	194.623	1.00156.80	I
ATOM	15754	O	TYR	I	148	31.082	117.750	193.969	1.00155.87	I
ATOM	15755	N	TYR	I	149	29.469	118.816	195.132	1.00154.55	I
ATOM	15756	CA	TYR	I	149	28.474	117.769	194.913	1.00152.43	I
ATOM	15757	CB	TYR	I	149	27.318	117.860	195.917	1.00148.04	I
ATOM	15758	CG	TYR	I	149	27.566	117.260	197.284	1.00143.23	I
ATOM	15759	CD1	TYR	I	149	28.159	118.005	198.300	1.00142.55	I
ATOM	15760	CE1	TYR	I	149	28.352	117.466	199.572	1.00139.56	I
ATOM	15761	CD2	TYR	I	149	27.173	115.954	197.571	1.00140.87	I
ATOM	15762	CE2	TYR	I	149	27.363	115.405	198.837	1.00138.83	I
ATOM	15763	CZ	TYR	I	149	27.953	116.167	199.833	1.00138.65	I
ATOM	15764	OH	TYR	I	149	28.143	115.642	201.091	1.00137.38	I
ATOM	15765	C	TYR	I	149	27.907	117.990	193.518	1.00153.50	I
ATOM	15766	O	TYR	I	149	27.123	118.915	193.307	1.00153.77	I
ATOM	15767	N	LEU	I	150	28.305	117.150	192.568	1.00154.95	I
ATOM	15768	CA	LEU	I	150	27.823	117.277	191.196	1.00156.03	I
ATOM	15769	CB	LEU	I	150	28.784	116.583	190.226	1.00155.97	I
ATOM	15770	CG	LEU	I	150	30.259	116.989	190.258	1.00155.41	I
ATOM	15771	CD1	LEU	I	150	31.019	116.179	189.220	1.00154.79	I
ATOM	15772	CD2	LEU	I	150	30.399	118.479	189.987	1.00155.27	I
ATOM	15773	C	LEU	I	150	26.435	116.661	191.053	1.00156.88	I
ATOM	15774	O	LEU	I	150	26.272	115.449	191.190	1.00157.11	I
ATOM	15775	N	THR	I	151	25.438	117.494	190.775	1.00157.66	I
ATOM	15776	CA	THR	I	151	24.076	117.007	190.615	1.00158.12	I
ATOM	15777	CB	THR	I	151	23.055	118.123	190.917	1.00157.60	I
ATOM	15778	OG1	THR	I	151	23.351	118.712	192.190	1.00156.16	I
ATOM	15779	CG2	THR	I	151	21.646	117.557	190.954	1.00157.39	I
ATOM	15780	C	THR	I	151	23.881	116.507	189.183	1.00158.98	I
ATOM	15781	O	THR	I	151	23.342	117.221	188.337	1.00159.25	I
ATOM	15782	N	VAL	I	152	24.331	115.280	188.924	1.00159.31	I
ATOM	15783	CA	VAL	I	152	24.230	114.659	187.603	1.00159.16	I
ATOM	15784	CB	VAL	I	152	25.098	113.379	187.527	1.00157.83	I
ATOM	15785	CG1	VAL	I	152	24.883	112.677	186.196	1.00157.10	I

ATOM	15786	CG2	VAL	I	152	26.566	113.735	187.704	1.00156.39	I
ATOM	15787	C	VAL	I	152	22.798	114.301	187.211	1.00160.13	I
ATOM	15788	O	VAL	I	152	22.102	113.592	187.937	1.00159.64	I
ATOM	15789	N	THR	I	153	22.371	114.795	186.054	1.00161.43	I
ATOM	15790	CA	THR	I	153	21.029	114.533	185.555	1.00162.96	I
ATOM	15791	CB	THR	I	153	20.108	115.752	185.766	1.00162.96	I
ATOM	15792	OG1	THR	I	153	18.821	115.485	185.195	1.00163.76	I
ATOM	15793	CG2	THR	I	153	20.701	116.982	185.108	1.00162.82	I
ATOM	15794	C	THR	I	153	21.050	114.184	184.070	1.00164.16	I
ATOM	15795	O	THR	I	153	22.065	114.360	183.391	1.00163.88	I
ATOM	15796	N	GLU	I	154	19.915	113.690	183.579	1.00165.76	I
ATOM	15797	CA	GLU	I	154	19.763	113.297	182.183	1.00167.25	I
ATOM	15798	CB	GLU	I	154	19.707	114.537	181.290	1.00167.27	I
ATOM	15799	CG	GLU	I	154	18.687	115.578	181.741	1.00166.63	I
ATOM	15800	CD	GLU	I	154	18.509	116.701	180.735	1.00166.50	I
ATOM	15801	OE1	GLU	I	154	17.877	117.724	181.081	1.00165.37	I
ATOM	15802	OE2	GLU	I	154	18.994	116.554	179.594	1.00166.65	I
ATOM	15803	C	GLU	I	154	20.910	112.387	181.749	1.00168.67	I
ATOM	15804	O	GLU	I	154	21.430	112.510	180.638	1.00169.23	I
ATOM	15805	N	LEU	I	155	21.302	111.478	182.639	1.00169.56	I
ATOM	15806	CA	LEU	I	155	22.383	110.534	182.366	1.00170.47	I
ATOM	15807	CB	LEU	I	155	22.801	109.828	183.661	1.00171.22	I
ATOM	15808	CG	LEU	I	155	24.024	108.906	183.623	1.00171.80	I
ATOM	15809	CD1	LEU	I	155	25.253	109.686	183.175	1.00173.00	I
ATOM	15810	CD2	LEU	I	155	24.253	108.313	185.005	1.00172.11	I
ATOM	15811	C	LEU	I	155	21.907	109.511	181.341	1.00170.76	I
ATOM	15812	O	LEU	I	155	20.779	109.027	181.421	1.00170.49	I
ATOM	15813	N	ASN	I	156	22.765	109.184	180.380	1.00171.50	I
ATOM	15814	CA	ASN	I	156	22.401	108.228	179.340	1.00172.35	I
ATOM	15815	CB	ASN	I	156	21.910	108.976	178.097	1.00170.46	I
ATOM	15816	CG	ASN	I	156	20.889	110.046	178.426	1.00168.46	I
ATOM	15817	OD1	ASN	I	156	19.821	109.760	178.966	1.00167.03	I
ATOM	15818	ND2	ASN	I	156	21.217	111.290	178.104	1.00167.11	I
ATOM	15819	C	ASN	I	156	23.560	107.316	178.946	1.00173.89	I
ATOM	15820	O	ASN	I	156	24.681	107.781	178.732	1.00173.48	I
ATOM	15821	N	ALA	I	157	23.280	106.018	178.849	1.00175.69	I
ATOM	15822	CA	ALA	I	157	24.286	105.034	178.457	1.00177.15	I
ATOM	15823	CB	ALA	I	157	23.799	103.627	178.784	1.00176.58	I
ATOM	15824	C	ALA	I	157	24.496	105.184	176.954	1.00178.18	I
ATOM	15825	O	ALA	I	157	24.801	104.219	176.248	1.00178.16	I
ATOM	15826	N	GLY	I	158	24.332	106.417	176.484	1.00179.18	I
ATOM	15827	CA	GLY	I	158	24.472	106.720	175.075	1.00180.16	I
ATOM	15828	C	GLY	I	158	23.091	106.911	174.484	1.00180.63	I
ATOM	15829	O	GLY	I	158	22.736	108.000	174.030	1.00180.21	I
ATOM	15830	N	THR	I	159	22.307	105.837	174.507	1.00181.44	I
ATOM	15831	CA	THR	I	159	20.946	105.841	173.984	1.00182.17	I
ATOM	15832	CB	THR	I	159	20.781	104.806	172.851	1.00181.74	I
ATOM	15833	OG1	THR	I	159	21.110	103.500	173.344	1.00181.11	I
ATOM	15834	CG2	THR	I	159	21.693	105.142	171.683	1.00181.01	I
ATOM	15835	C	THR	I	159	19.974	105.486	175.104	1.00182.65	I
ATOM	15836	O	THR	I	159	18.853	105.994	175.160	1.00182.71	I
ATOM	15837	N	ARG	I	160	20.421	104.609	175.995	1.00182.73	I
ATOM	15838	CA	ARG	I	160	19.616	104.162	177.123	1.00182.90	I
ATOM	15839	CB	ARG	I	160	20.123	102.798	177.595	1.00183.97	I
ATOM	15840	CG	ARG	I	160	19.535	102.307	178.906	1.00185.44	I
ATOM	15841	CD	ARG	I	160	18.012	102.331	178.918	1.00186.50	I
ATOM	15842	NE	ARG	I	160	17.493	101.527	180.017	1.00187.84	I
ATOM	15843	CZ	ARG	I	160	16.239	101.568	180.456	1.00188.40	I

ATOM	15844	NH1	ARG	I	160	15.351	102.383	179.895	1.00188.53	I
ATOM	15845	NH2	ARG	I	160	15.872	100.790	181.466	1.00189.24	I
ATOM	15846	C	ARG	I	160	19.652	105.169	178.270	1.00182.58	I
ATOM	15847	O	ARG	I	160	20.697	105.380	178.888	1.00182.96	I
ATOM	15848	N	VAL	I	161	18.502	105.783	178.548	1.00181.22	I
ATOM	15849	CA	VAL	I	161	18.383	106.776	179.614	1.00179.38	I
ATOM	15850	CB	VAL	I	161	17.066	107.589	179.490	1.00179.52	I
ATOM	15851	CG1	VAL	I	161	15.861	106.669	179.637	1.00179.28	I
ATOM	15852	CG2	VAL	I	161	17.030	108.687	180.545	1.00178.86	I
ATOM	15853	C	VAL	I	161	18.434	106.146	181.004	1.00177.53	I
ATOM	15854	O	VAL	I	161	17.774	105.140	181.273	1.00176.67	I
ATOM	15855	N	LEU	I	162	19.223	106.750	181.885	1.00175.78	I
ATOM	15856	CA	LEU	I	162	19.371	106.256	183.247	1.00173.69	I
ATOM	15857	CB	LEU	I	162	20.854	106.181	183.624	1.00174.66	I
ATOM	15858	CG	LEU	I	162	21.696	105.184	182.827	1.00175.26	I
ATOM	15859	CD1	LEU	I	162	23.126	105.157	183.357	1.00174.65	I
ATOM	15860	CD2	LEU	I	162	21.063	103.810	182.936	1.00175.02	I
ATOM	15861	C	LEU	I	162	18.636	107.126	184.255	1.00171.56	I
ATOM	15862	O	LEU	I	162	17.692	107.837	183.909	1.00170.94	I
ATOM	15863	N	GLU	I	163	19.081	107.063	185.505	1.00169.66	I
ATOM	15864	CA	GLU	I	163	18.470	107.837	186.573	1.00167.83	I
ATOM	15865	CB	GLU	I	163	17.936	106.897	187.651	1.00167.65	I
ATOM	15866	CG	GLU	I	163	17.032	107.568	188.656	1.00167.52	I
ATOM	15867	CD	GLU	I	163	16.184	106.571	189.412	1.00168.31	I
ATOM	15868	OE1	GLU	I	163	15.474	105.783	188.750	1.00168.39	I
ATOM	15869	OE2	GLU	I	163	16.224	106.578	190.659	1.00168.69	I
ATOM	15870	C	GLU	I	163	19.471	108.818	187.176	1.00166.69	I
ATOM	15871	O	GLU	I	163	20.664	108.528	187.267	1.00166.82	I
ATOM	15872	N	ASN	I	164	18.968	109.980	187.582	1.00165.21	I
ATOM	15873	CA	ASN	I	164	19.786	111.040	188.169	1.00163.46	I
ATOM	15874	CB	ASN	I	164	18.883	112.161	188.692	1.00161.33	I
ATOM	15875	CG	ASN	I	164	17.936	112.691	187.633	1.00158.94	I
ATOM	15876	OD1	ASN	I	164	18.363	113.267	186.634	1.00157.38	I
ATOM	15877	ND2	ASN	I	164	16.641	112.492	187.846	1.00157.16	I
ATOM	15878	C	ASN	I	164	20.681	110.535	189.299	1.00163.13	I
ATOM	15879	O	ASN	I	164	20.528	109.406	189.766	1.00163.68	I
ATOM	15880	N	ALA	I	165	21.609	111.382	189.737	1.00162.28	I
ATOM	15881	CA	ALA	I	165	22.529	111.021	190.810	1.00161.00	I
ATOM	15882	CB	ALA	I	165	23.623	110.117	190.266	1.00160.87	I
ATOM	15883	C	ALA	I	165	23.148	112.252	191.463	1.00160.19	I
ATOM	15884	O	ALA	I	165	23.174	113.331	190.872	1.00161.01	I
ATOM	15885	N	LEU	I	166	23.644	112.081	192.685	1.00158.96	I
ATOM	15886	CA	LEU	I	166	24.271	113.172	193.426	1.00158.46	I
ATOM	15887	CB	LEU	I	166	23.394	113.572	194.619	1.00154.07	I
ATOM	15888	CG	LEU	I	166	23.957	114.656	195.546	1.00150.23	I
ATOM	15889	CD1	LEU	I	166	24.131	115.950	194.778	1.00149.03	I
ATOM	15890	CD2	LEU	I	166	23.030	114.861	196.725	1.00148.03	I
ATOM	15891	C	LEU	I	166	25.663	112.762	193.915	1.00159.98	I
ATOM	15892	O	LEU	I	166	25.837	112.375	195.071	1.00160.03	I
ATOM	15893	N	VAL	I	167	26.648	112.852	193.025	1.00161.63	I
ATOM	15894	CA	VAL	I	167	28.024	112.486	193.346	1.00162.65	I
ATOM	15895	CB	VAL	I	167	28.897	112.451	192.072	1.00161.92	I
ATOM	15896	CG1	VAL	I	167	30.225	111.781	192.371	1.00162.44	I
ATOM	15897	CG2	VAL	I	167	28.166	111.715	190.958	1.00160.52	I
ATOM	15898	C	VAL	I	167	28.644	113.465	194.344	1.00164.09	I
ATOM	15899	O	VAL	I	167	28.828	114.644	194.042	1.00164.19	I
ATOM	15900	N	PRO	I	168	28.974	112.983	195.553	1.00165.47	I
ATOM	15901	CD	PRO	I	168	28.790	111.592	196.005	1.00165.32	I

ATOM	15902	CA	PRO	I	168	29.576	113.798	196.614	1.00167.05	I
ATOM	15903	CB	PRO	I	168	29.540	112.860	197.817	1.00166.46	I
ATOM	15904	CG	PRO	I	168	29.721	111.517	197.186	1.00164.95	I
ATOM	15905	C	PRO	I	168	30.997	114.279	196.289	1.00168.92	I
ATOM	15906	O	PRO	I	168	31.656	113.739	195.399	1.00169.34	I
ATOM	15907	N	PRO	I	169	31.479	115.309	197.010	1.00170.20	I
ATOM	15908	CD	PRO	I	169	30.729	116.066	198.024	1.00170.23	I
ATOM	15909	CA	PRO	I	169	32.815	115.890	196.831	1.00171.64	I
ATOM	15910	CB	PRO	I	169	32.854	117.000	197.879	1.00170.96	I
ATOM	15911	CG	PRO	I	169	31.431	117.400	198.002	1.00170.32	I
ATOM	15912	C	PRO	I	169	33.898	114.850	197.074	1.00173.44	I
ATOM	15913	O	PRO	I	169	33.933	114.222	198.134	1.00173.26	I
ATOM	15914	N	MET	I	170	34.784	114.675	196.098	1.00175.48	I
ATOM	15915	CA	MET	I	170	35.861	113.701	196.222	1.00177.37	I
ATOM	15916	CB	MET	I	170	36.812	114.117	197.345	1.00177.69	I
ATOM	15917	CG	MET	I	170	37.656	115.329	197.007	1.00177.67	I
ATOM	15918	SD	MET	I	170	38.311	116.146	198.467	1.00177.97	I
ATOM	15919	CE	MET	I	170	37.325	117.618	198.463	1.00176.96	I
ATOM	15920	C	MET	I	170	35.278	112.324	196.509	1.00178.28	I
ATOM	15921	O	MET	I	170	35.863	111.526	197.242	1.00178.66	I
ATOM	15922	N	GLY	I	171	34.114	112.061	195.927	1.00178.76	I
ATOM	15923	CA	GLY	I	171	33.459	110.785	196.125	1.00179.58	I
ATOM	15924	C	GLY	I	171	32.974	110.208	194.813	1.00180.38	I
ATOM	15925	O	GLY	I	171	33.332	110.693	193.739	1.00180.44	I
ATOM	15926	N	GLU	I	172	32.153	109.168	194.904	1.00181.18	I
ATOM	15927	CA	GLU	I	172	31.609	108.513	193.725	1.00181.55	I
ATOM	15928	CB	GLU	I	172	32.592	107.445	193.227	1.00182.77	I
ATOM	15929	CG	GLU	I	172	33.218	106.598	194.337	1.00184.68	I
ATOM	15930	CD	GLU	I	172	34.389	105.756	193.850	1.00185.53	I
ATOM	15931	OE1	GLU	I	172	34.172	104.868	192.997	1.00186.45	I
ATOM	15932	OE2	GLU	I	172	35.527	105.986	194.320	1.00185.39	I
ATOM	15933	C	GLU	I	172	30.250	107.896	194.031	1.00181.32	I
ATOM	15934	O	GLU	I	172	29.880	107.727	195.194	1.00180.58	I
ATOM	15935	N	SER	I	173	29.508	107.570	192.979	1.00181.79	I
ATOM	15936	CA	SER	I	173	28.186	106.974	193.127	1.00182.44	I
ATOM	15937	CB	SER	I	173	27.140	108.075	193.303	1.00181.63	I
ATOM	15938	OG	SER	I	173	27.446	108.877	194.432	1.00180.28	I
ATOM	15939	C	SER	I	173	27.852	106.111	191.911	1.00183.18	I
ATOM	15940	O	SER	I	173	27.987	106.552	190.769	1.00182.86	I
ATOM	15941	N	ALA	I	174	27.414	104.881	192.161	1.00184.14	I
ATOM	15942	CA	ALA	I	174	27.083	103.957	191.083	1.00184.43	I
ATOM	15943	CB	ALA	I	174	27.598	102.561	191.430	1.00185.02	I
ATOM	15944	C	ALA	I	174	25.593	103.886	190.751	1.00184.20	I
ATOM	15945	O	ALA	I	174	24.755	103.641	191.621	1.00183.82	I
ATOM	15946	N	VAL	I	175	25.278	104.103	189.479	1.00184.19	I
ATOM	15947	CA	VAL	I	175	23.910	104.041	188.998	1.00184.52	I
ATOM	15948	CB	VAL	I	175	23.590	105.239	188.090	1.00184.22	I
ATOM	15949	CG1	VAL	I	175	22.147	105.166	187.611	1.00183.50	I
ATOM	15950	CG2	VAL	I	175	23.842	106.545	188.820	1.00184.07	I
ATOM	15951	C	VAL	I	175	23.747	102.753	188.207	1.00185.30	I
ATOM	15952	O	VAL	I	175	24.692	102.284	187.572	1.00185.22	I
ATOM	15953	N	LYS	I	176	22.545	102.187	188.261	1.00186.33	I
ATOM	15954	CA	LYS	I	176	22.246	100.926	187.584	1.00187.60	I
ATOM	15955	CB	LYS	I	176	20.780	100.527	187.807	1.00186.58	I
ATOM	15956	CG	LYS	I	176	20.465	100.173	189.252	1.00185.58	I
ATOM	15957	CD	LYS	I	176	20.597	101.390	190.148	1.00185.58	I
ATOM	15958	CE	LYS	I	176	20.889	100.976	191.582	1.00186.23	I
ATOM	15959	NZ	LYS	I	176	22.239	100.316	191.692	1.00186.18	I

ATOM	15960	C	LYS	I	176	22.530	100.941	186.078	1.00189.03	I
ATOM	15961	O	LYS	I	176	21.781	101.533	185.304	1.00189.53	I
ATOM	15962	N	LEU	I	177	23.607	100.282	185.658	1.00190.15	I
ATOM	15963	CA	LEU	I	177	23.954	100.201	184.241	1.00190.81	I
ATOM	15964	CB	LEU	I	177	25.439	99.874	184.083	1.00191.61	I
ATOM	15965	CG	LEU	I	177	26.001	99.879	182.653	1.00192.29	I
ATOM	15966	CD1	LEU	I	177	25.315	100.945	181.798	1.00192.22	I
ATOM	15967	CD2	LEU	I	177	27.503	100.156	182.705	1.00192.69	I
ATOM	15968	C	LEU	I	177	23.073	99.116	183.632	1.00191.00	I
ATOM	15969	O	LEU	I	177	23.269	97.925	183.868	1.00190.63	I
ATOM	15970	N	PRO	I	178	22.087	99.535	182.829	1.00191.49	I
ATOM	15971	CD	PRO	I	178	22.039	100.928	182.348	1.00191.82	I
ATOM	15972	CA	PRO	I	178	21.087	98.729	182.127	1.00191.84	I
ATOM	15973	CB	PRO	I	178	20.290	99.783	181.370	1.00191.57	I
ATOM	15974	CG	PRO	I	178	21.343	100.785	181.025	1.00191.86	I
ATOM	15975	C	PRO	I	178	21.572	97.617	181.200	1.00192.29	I
ATOM	15976	O	PRO	I	178	20.815	96.690	180.892	1.00192.22	I
ATOM	15977	N	SER	I	179	22.820	97.700	180.752	1.00192.70	I
ATOM	15978	CA	SER	I	179	23.377	96.709	179.824	1.00192.71	I
ATOM	15979	CB	SER	I	179	23.096	95.273	180.297	1.00192.30	I
ATOM	15980	OG	SER	I	179	23.759	94.312	179.484	1.00192.49	I
ATOM	15981	C	SER	I	179	22.830	96.928	178.417	1.00192.79	I
ATOM	15982	O	SER	I	179	23.067	96.129	177.500	1.00193.06	I
ATOM	15983	N	ASP	I	180	22.068	98.012	178.279	1.00192.07	I
ATOM	15984	CA	ASP	I	180	21.495	98.452	177.001	1.00190.78	I
ATOM	15985	CB	ASP	I	180	20.038	98.897	177.189	1.00190.43	I
ATOM	15986	CG	ASP	I	180	19.149	97.792	177.731	1.00189.52	I
ATOM	15987	OD1	ASP	I	180	17.942	98.062	177.964	1.00188.48	I
ATOM	15988	OD2	ASP	I	180	19.644	96.657	177.923	1.00189.13	I
ATOM	15989	C	ASP	I	180	22.401	99.647	176.750	1.00189.96	I
ATOM	15990	O	ASP	I	180	22.017	100.686	176.228	1.00189.52	I
ATOM	15991	N	ALA	I	181	23.637	99.412	177.166	1.00189.62	I
ATOM	15992	CA	ALA	I	181	24.769	100.327	177.165	1.00189.29	I
ATOM	15993	CB	ALA	I	181	25.920	99.633	177.801	1.00188.86	I
ATOM	15994	C	ALA	I	181	25.246	100.940	175.852	1.00188.86	I
ATOM	15995	O	ALA	I	181	24.462	101.406	175.027	1.00188.92	I
ATOM	15996	N	GLY	I	182	26.575	100.986	175.736	1.00188.03	I
ATOM	15997	CA	GLY	I	182	27.275	101.550	174.596	1.00186.96	I
ATOM	15998	C	GLY	I	182	28.643	101.942	175.120	1.00186.39	I
ATOM	15999	O	GLY	I	182	29.568	101.130	175.143	1.00185.76	I
ATOM	16000	N	SER	I	183	28.740	103.189	175.563	1.00186.79	I
ATOM	16001	CA	SER	I	183	29.952	103.769	176.117	1.00187.43	I
ATOM	16002	CB	SER	I	183	31.219	103.175	175.484	1.00187.34	I
ATOM	16003	OG	SER	I	183	32.142	102.759	176.483	1.00186.80	I
ATOM	16004	C	SER	I	183	29.889	105.267	175.843	1.00187.57	I
ATOM	16005	O	SER	I	183	30.698	106.053	176.347	1.00187.76	I
ATOM	16006	N	ASN	I	184	28.911	105.655	175.032	1.00187.10	I
ATOM	16007	CA	ASN	I	184	28.700	107.057	174.684	1.00186.12	I
ATOM	16008	CB	ASN	I	184	27.785	107.173	173.450	1.00186.64	I
ATOM	16009	CG	ASN	I	184	27.475	108.621	173.078	1.00186.98	I
ATOM	16010	OD1	ASN	I	184	28.382	109.408	172.801	1.00187.16	I
ATOM	16011	ND2	ASN	I	184	26.189	108.977	173.075	1.00186.61	I
ATOM	16012	C	ASN	I	184	28.062	107.777	175.862	1.00184.68	I
ATOM	16013	O	ASN	I	184	27.119	108.556	175.694	1.00185.04	I
ATOM	16014	N	ILE	I	185	28.569	107.503	177.059	1.00182.42	I
ATOM	16015	CA	ILE	I	185	28.032	108.132	178.257	1.00179.98	I
ATOM	16016	CB	ILE	I	185	28.939	107.893	179.485	1.00179.43	I
ATOM	16017	CG2	ILE	I	185	28.318	108.551	180.717	1.00177.84	I

ATOM	16018	CG1	ILE	I	185	29.109	106.392	179.734	1.00179.05	I
ATOM	16019	CD1	ILE	I	185	30.002	106.053	180.916	1.00177.88	I
ATOM	16020	C	ILE	I	185	27.876	109.638	178.054	1.00178.30	I
ATOM	16021	O	ILE	I	185	28.792	110.305	177.580	1.00178.03	I
ATOM	16022	N	THR	I	186	26.699	110.156	178.395	1.00176.23	I
ATOM	16023	CA	THR	I	186	26.396	111.579	178.264	1.00173.80	I
ATOM	16024	CB	THR	I	186	25.465	111.837	177.070	1.00174.21	I
ATOM	16025	OG1	THR	I	186	24.257	111.083	177.232	1.00174.54	I
ATOM	16026	CG2	THR	I	186	26.140	111.428	175.773	1.00173.90	I
ATOM	16027	C	THR	I	186	25.714	112.061	179.539	1.00171.58	I
ATOM	16028	O	THR	I	186	25.067	111.272	180.229	1.00171.29	I
ATOM	16029	N	TYR	I	187	25.844	113.348	179.852	1.00169.26	I
ATOM	16030	CA	TYR	I	187	25.241	113.862	181.076	1.00167.06	I
ATOM	16031	CB	TYR	I	187	26.025	113.340	182.281	1.00167.02	I
ATOM	16032	CG	TYR	I	187	27.462	113.821	182.334	1.00166.86	I
ATOM	16033	CD1	TYR	I	187	27.801	115.008	182.986	1.00166.34	I
ATOM	16034	CE1	TYR	I	187	29.120	115.459	183.023	1.00167.07	I
ATOM	16035	CD2	TYR	I	187	28.481	113.095	181.716	1.00166.87	I
ATOM	16036	CE2	TYR	I	187	29.804	113.537	181.743	1.00167.16	I
ATOM	16037	CZ	TYR	I	187	30.117	114.719	182.398	1.00167.81	I
ATOM	16038	OH	TYR	I	187	31.424	115.155	182.418	1.00168.58	I
ATOM	16039	C	TYR	I	187	25.144	115.377	181.179	1.00165.30	I
ATOM	16040	O	TYR	I	187	25.931	116.114	180.584	1.00165.46	I
ATOM	16041	N	ARG	I	188	24.162	115.827	181.952	1.00163.05	I
ATOM	16042	CA	ARG	I	188	23.946	117.246	182.196	1.00161.24	I
ATOM	16043	CB	ARG	I	188	22.637	117.717	181.554	1.00161.42	I
ATOM	16044	CG	ARG	I	188	22.614	117.625	180.033	1.00160.83	I
ATOM	16045	CD	ARG	I	188	21.329	118.215	179.464	1.00160.42	I
ATOM	16046	NE	ARG	I	188	21.269	119.671	179.569	1.00159.43	I
ATOM	16047	CZ	ARG	I	188	21.979	120.507	178.816	1.00159.50	I
ATOM	16048	NH1	ARG	I	188	22.810	120.038	177.896	1.00159.52	I
ATOM	16049	NH2	ARG	I	188	21.855	121.817	178.978	1.00159.37	I
ATOM	16050	C	ARG	I	188	23.875	117.412	183.711	1.00159.79	I
ATOM	16051	O	ARG	I	188	23.444	116.501	184.416	1.00159.36	I
ATOM	16052	N	THR	I	189	24.306	118.565	184.214	1.00158.41	I
ATOM	16053	CA	THR	I	189	24.288	118.810	185.653	1.00156.54	I
ATOM	16054	CB	THR	I	189	25.712	118.945	186.216	1.00158.18	I
ATOM	16055	OG1	THR	I	189	26.222	120.248	185.911	1.00159.65	I
ATOM	16056	CG2	THR	I	189	26.631	117.892	185.600	1.00160.02	I
ATOM	16057	C	THR	I	189	23.523	120.076	186.019	1.00153.86	I
ATOM	16058	O	THR	I	189	23.072	120.818	185.147	1.00153.75	I
ATOM	16059	N	ILE	I	190	23.387	120.316	187.319	1.00151.32	I
ATOM	16060	CA	ILE	I	190	22.684	121.491	187.823	1.00148.76	I
ATOM	16061	CB	ILE	I	190	21.503	121.094	188.733	1.00146.50	I
ATOM	16062	CG2	ILE	I	190	20.718	122.333	189.130	1.00145.59	I
ATOM	16063	CG1	ILE	I	190	20.580	120.123	188.002	1.00144.35	I
ATOM	16064	CD1	ILE	I	190	19.429	119.636	188.847	1.00142.27	I
ATOM	16065	C	ILE	I	190	23.640	122.364	188.629	1.00147.79	I
ATOM	16066	O	ILE	I	190	24.148	121.948	189.671	1.00147.59	I
ATOM	16067	N	ASN	I	191	23.876	123.578	188.145	1.00146.25	I
ATOM	16068	CA	ASN	I	191	24.777	124.502	188.816	1.00144.86	I
ATOM	16069	CB	ASN	I	191	25.279	125.551	187.831	1.00146.48	I
ATOM	16070	CG	ASN	I	191	24.153	126.244	187.108	1.00148.24	I
ATOM	16071	OD1	ASN	I	191	23.275	126.841	187.731	1.00149.06	I
ATOM	16072	ND2	ASN	I	191	24.166	126.166	185.782	1.00149.61	I
ATOM	16073	C	ASN	I	191	24.135	125.189	190.013	1.00143.25	I
ATOM	16074	O	ASN	I	191	23.061	124.795	190.465	1.00141.66	I
ATOM	16075	N	ASP	I	192	24.806	126.229	190.503	1.00143.13	I

ATOM	16076	CA	ASP	I	192	24.372	126.993	191.673	1.00143.03	I
ATOM	16077	CB	ASP	I	192	25.452	128.010	192.069	1.00145.28	I
ATOM	16078	CG	ASP	I	192	26.817	127.373	192.275	1.00147.43	I
ATOM	16079	OD1	ASP	I	192	27.720	128.072	192.785	1.00147.75	I
ATOM	16080	OD2	ASP	I	192	26.992	126.187	191.921	1.00149.99	I
ATOM	16081	C	ASP	I	192	23.043	127.733	191.564	1.00141.49	I
ATOM	16082	O	ASP	I	192	22.394	127.990	192.579	1.00140.34	I
ATOM	16083	N	TYR	I	193	22.638	128.088	190.351	1.00140.85	I
ATOM	16084	CA	TYR	I	193	21.390	128.824	190.169	1.00140.41	I
ATOM	16085	CB	TYR	I	193	21.571	129.898	189.094	1.00138.28	I
ATOM	16086	CG	TYR	I	193	22.915	130.587	189.163	1.00136.79	I
ATOM	16087	CD1	TYR	I	193	23.988	130.142	188.389	1.00135.94	I
ATOM	16088	CE1	TYR	I	193	25.236	130.747	188.474	1.00135.10	I
ATOM	16089	CD2	TYR	I	193	23.126	131.661	190.029	1.00135.57	I
ATOM	16090	CE2	TYR	I	193	24.370	132.273	190.123	1.00134.68	I
ATOM	16091	CZ	TYR	I	193	25.420	131.812	189.344	1.00135.04	I
ATOM	16092	OH	TYR	I	193	26.652	132.416	189.433	1.00134.33	I
ATOM	16093	C	TYR	I	193	20.240	127.901	189.795	1.00141.51	I
ATOM	16094	O	TYR	I	193	19.097	128.340	189.660	1.00140.69	I
ATOM	16095	N	GLY	I	194	20.549	126.616	189.648	1.00143.84	I
ATOM	16096	CA	GLY	I	194	19.535	125.644	189.286	1.00145.23	I
ATOM	16097	C	GLY	I	194	19.390	125.545	187.782	1.00145.85	I
ATOM	16098	O	GLY	I	194	18.287	125.359	187.267	1.00145.96	I
ATOM	16099	N	ALA	I	195	20.511	125.664	187.076	1.00146.17	I
ATOM	16100	CA	ALA	I	195	20.508	125.607	185.619	1.00147.15	I
ATOM	16101	CB	ALA	I	195	20.998	126.936	185.058	1.00146.11	I
ATOM	16102	C	ALA	I	195	21.349	124.456	185.057	1.00148.24	I
ATOM	16103	O	ALA	I	195	22.482	124.226	185.484	1.00149.08	I
ATOM	16104	N	LEU	I	196	20.777	123.737	184.094	1.00149.06	I
ATOM	16105	CA	LEU	I	196	21.444	122.607	183.451	1.00150.06	I
ATOM	16106	CB	LEU	I	196	20.503	121.937	182.444	1.00149.44	I
ATOM	16107	CG	LEU	I	196	19.421	120.976	182.936	1.00148.91	I
ATOM	16108	CD1	LEU	I	196	18.452	120.663	181.807	1.00147.28	I
ATOM	16109	CD2	LEU	I	196	20.076	119.707	183.440	1.00149.71	I
ATOM	16110	C	LEU	I	196	22.707	123.028	182.716	1.00151.11	I
ATOM	16111	O	LEU	I	196	22.648	123.834	181.790	1.00151.51	I
ATOM	16112	N	THR	I	197	23.847	122.481	183.122	1.00152.49	I
ATOM	16113	CA	THR	I	197	25.103	122.804	182.457	1.00154.72	I
ATOM	16114	CB	THR	I	197	26.309	122.262	183.247	1.00153.95	I
ATOM	16115	OG1	THR	I	197	26.267	120.830	183.272	1.00153.22	I
ATOM	16116	CG2	THR	I	197	26.280	122.790	184.672	1.00153.73	I
ATOM	16117	C	THR	I	197	25.053	122.155	181.070	1.00156.81	I
ATOM	16118	O	THR	I	197	24.195	121.306	180.813	1.00156.59	I
ATOM	16119	N	PRO	I	198	25.964	122.543	180.155	1.00158.49	I
ATOM	16120	CD	PRO	I	198	27.119	123.446	180.316	1.00158.27	I
ATOM	16121	CA	PRO	I	198	25.953	121.955	178.810	1.00159.20	I
ATOM	16122	CB	PRO	I	198	27.052	122.730	178.088	1.00157.81	I
ATOM	16123	CG	PRO	I	198	28.023	123.016	179.182	1.00157.04	I
ATOM	16124	C	PRO	I	198	26.182	120.448	178.773	1.00160.45	I
ATOM	16125	O	PRO	I	198	26.981	119.906	179.540	1.00160.87	I
ATOM	16126	N	LYS	I	199	25.469	119.781	177.871	1.00161.73	I
ATOM	16127	CA	LYS	I	199	25.573	118.336	177.707	1.00163.50	I
ATOM	16128	CB	LYS	I	199	24.559	117.862	176.662	1.00161.86	I
ATOM	16129	CG	LYS	I	199	24.809	116.471	176.122	1.00159.00	I
ATOM	16130	CD	LYS	I	199	23.812	116.142	175.031	1.00156.51	I
ATOM	16131	CE	LYS	I	199	24.285	114.967	174.202	1.00156.07	I
ATOM	16132	NZ	LYS	I	199	24.571	113.782	175.054	1.00155.80	I
ATOM	16133	C	LYS	I	199	26.985	117.933	177.290	1.00165.41	I

ATOM	16134	O	LYS	I	199	27.477	118.358	176.247	1.00165.49	I
ATOM	16135	N	MET	I	200	27.632	117.112	178.111	1.00167.64	I
ATOM	16136	CA	MET	I	200	28.989	116.655	177.831	1.00169.80	I
ATOM	16137	CB	MET	I	200	29.927	117.130	178.943	1.00169.53	I
ATOM	16138	CG	MET	I	200	29.206	117.472	180.240	1.00169.35	I
ATOM	16139	SD	MET	I	200	30.238	118.388	181.401	1.00169.81	I
ATOM	16140	CE	MET	I	200	29.870	120.091	180.932	1.00169.12	I
ATOM	16141	C	MET	I	200	29.047	115.135	177.683	1.00171.51	I
ATOM	16142	O	MET	I	200	28.022	114.459	177.789	1.00171.56	I
ATOM	16143	N	THR	I	201	30.241	114.599	177.435	1.00173.07	I
ATOM	16144	CA	THR	I	201	30.401	113.157	177.255	1.00174.26	I
ATOM	16145	CB	THR	I	201	31.238	112.836	175.985	1.00174.49	I
ATOM	16146	OG1	THR	I	201	30.664	113.494	174.849	1.00175.25	I
ATOM	16147	CG2	THR	I	201	31.255	111.333	175.718	1.00173.78	I
ATOM	16148	C	THR	I	201	31.049	112.463	178.454	1.00174.63	I
ATOM	16149	O	THR	I	201	31.847	113.058	179.182	1.00174.22	I
ATOM	16150	N	GLY	I	202	30.690	111.196	178.642	1.00175.03	I
ATOM	16151	CA	GLY	I	202	31.223	110.407	179.734	1.00175.11	I
ATOM	16152	C	GLY	I	202	32.659	110.006	179.481	1.00175.42	I
ATOM	16153	O	GLY	I	202	32.952	109.253	178.553	1.00174.82	I
ATOM	16154	N	VAL	I	203	33.553	110.515	180.321	1.00176.59	I
ATOM	16155	CA	VAL	I	203	34.980	110.244	180.211	1.00178.23	I
ATOM	16156	CB	VAL	I	203	35.797	111.519	180.527	1.00178.59	I
ATOM	16157	CG1	VAL	I	203	37.279	111.266	180.302	1.00179.17	I
ATOM	16158	CG2	VAL	I	203	35.306	112.676	179.667	1.00178.18	I
ATOM	16159	C	VAL	I	203	35.417	109.133	181.166	1.00179.08	I
ATOM	16160	O	VAL	I	203	36.061	109.402	182.184	1.00179.06	I
ATOM	16161	N	MET	I	204	35.068	107.890	180.838	1.00179.87	I
ATOM	16162	CA	MET	I	204	35.435	106.747	181.672	1.00180.48	I
ATOM	16163	CB	MET	I	204	35.143	105.425	180.949	1.00179.79	I
ATOM	16164	CG	MET	I	204	33.670	105.153	180.669	1.00179.53	I
ATOM	16165	SD	MET	I	204	32.963	106.250	179.420	1.00180.10	I
ATOM	16166	CE	MET	I	204	33.353	105.349	177.922	1.00179.47	I
ATOM	16167	C	MET	I	204	36.915	106.803	182.037	1.00181.49	I
ATOM	16168	O	MET	I	204	37.767	107.008	181.174	1.00181.06	I
ATOM	16169	N	GLU	I	205	37.215	106.628	183.320	1.00183.20	I
ATOM	16170	CA	GLU	I	205	38.595	106.653	183.792	1.00185.00	I
ATOM	16171	CB	GLU	I	205	38.673	107.218	185.213	1.00185.75	I
ATOM	16172	CG	GLU	I	205	37.929	106.391	186.251	1.00186.45	I
ATOM	16173	CD	GLU	I	205	38.711	106.227	187.542	1.00186.13	I
ATOM	16174	OE1	GLU	I	205	38.188	105.581	188.476	1.00186.36	I
ATOM	16175	OE2	GLU	I	205	39.849	106.739	187.619	1.00185.93	I
ATOM	16176	C	GLU	I	205	39.188	105.247	183.773	1.00185.73	I
ATOM	16177	O	GLU	I	205	40.379	105.117	183.416	1.00186.36	I
ATOM	16178	OXT	GLU	I	205	38.454	104.298	184.132	1.00185.96	I
ATOM	16179	CB	PHE	J	1	27.126	168.537	170.208	1.00 82.59	J
ATOM	16180	CG	PHE	J	1	26.469	167.467	171.041	1.00 81.35	J
ATOM	16181	CD1	PHE	J	1	26.401	166.158	170.587	1.00 80.53	J
ATOM	16182	CD2	PHE	J	1	25.946	167.765	172.294	1.00 80.13	J
ATOM	16183	CE1	PHE	J	1	25.827	165.162	171.364	1.00 79.01	J
ATOM	16184	CE2	PHE	J	1	25.373	166.776	173.076	1.00 78.53	J
ATOM	16185	CZ	PHE	J	1	25.313	165.471	172.610	1.00 78.41	J
ATOM	16186	C	PHE	J	1	29.260	167.246	169.978	1.00 84.98	J
ATOM	16187	O	PHE	J	1	29.320	166.883	168.797	1.00 86.21	J
ATOM	16188	N	PHE	J	1	29.206	169.674	169.502	1.00 84.01	J
ATOM	16189	CA	PHE	J	1	28.652	168.590	170.355	1.00 82.72	J
ATOM	16190	N	ALA	J	2	29.720	166.517	170.991	1.00 87.22	J
ATOM	16191	CA	ALA	J	2	30.318	165.198	170.803	1.00 88.72	J

ATOM	16192	CB	ALA	J	2	31.778	165.334	170.379	1.00	89.56	J
ATOM	16193	C	ALA	J	2	30.213	164.409	172.108	1.00	89.86	J
ATOM	16194	O	ALA	J	2	29.992	164.986	173.180	1.00	85.56	J
ATOM	16195	N	CYS	J	3	30.373	163.091	172.011	1.00	93.08	J
ATOM	16196	CA	CYS	J	3	30.278	162.221	173.180	1.00	95.01	J
ATOM	16197	C	CYS	J	3	31.376	161.166	173.170	1.00	97.67	J
ATOM	16198	O	CYS	J	3	32.079	160.999	172.170	1.00	98.51	J
ATOM	16199	CB	CYS	J	3	28.927	161.508	173.196	1.00	92.68	J
ATOM	16200	SG	CYS	J	3	27.482	162.545	172.816	1.00	85.96	J
ATOM	16201	N	LYS	J	4	31.506	160.448	174.284	1.00	99.67	J
ATOM	16202	CA	LYS	J	4	32.506	159.393	174.406	1.00	101.04	J
ATOM	16203	CB	LYS	J	4	33.898	160.003	174.610	1.00	103.07	J
ATOM	16204	CG	LYS	J	4	34.087	160.814	175.892	1.00	105.17	J
ATOM	16205	CD	LYS	J	4	35.420	161.571	175.869	1.00	106.51	J
ATOM	16206	CE	LYS	J	4	36.609	160.637	175.616	1.00	106.01	J
ATOM	16207	NZ	LYS	J	4	37.892	161.372	175.404	1.00	102.42	J
ATOM	16208	C	LYS	J	4	32.185	158.427	175.541	1.00	100.85	J
ATOM	16209	O	LYS	J	4	31.583	158.811	176.544	1.00	100.52	J
ATOM	16210	N	THR	J	5	32.591	157.172	175.369	1.00	101.54	J
ATOM	16211	CA	THR	J	5	32.351	156.134	176.367	1.00	103.14	J
ATOM	16212	CB	THR	J	5	32.109	154.757	175.699	1.00	103.81	J
ATOM	16213	OG1	THR	J	5	30.846	154.772	175.027	1.00	102.52	J
ATOM	16214	CG2	THR	J	5	32.100	153.641	176.737	1.00	106.10	J
ATOM	16215	C	THR	J	5	33.501	156.000	177.352	1.00	103.59	J
ATOM	16216	O	THR	J	5	34.669	155.978	176.967	1.00	104.73	J
ATOM	16217	N	ALA	J	6	33.152	155.900	178.629	1.00	103.89	J
ATOM	16218	CA	ALA	J	6	34.130	155.759	179.696	1.00	105.85	J
ATOM	16219	CB	ALA	J	6	33.417	155.456	181.004	1.00	104.50	J
ATOM	16220	C	ALA	J	6	35.158	154.667	179.401	1.00	107.91	J
ATOM	16221	O	ALA	J	6	36.229	154.637	180.009	1.00	108.96	J
ATOM	16222	N	ASN	J	7	34.832	153.772	178.473	1.00	109.15	J
ATOM	16223	CA	ASN	J	7	35.738	152.681	178.118	1.00	110.33	J
ATOM	16224	CB	ASN	J	7	34.937	151.446	177.676	1.00	113.17	J
ATOM	16225	CG	ASN	J	7	35.772	150.166	177.673	1.00	113.50	J
ATOM	16226	OD1	ASN	J	7	36.293	149.750	178.710	1.00	112.96	J
ATOM	16227	ND2	ASN	J	7	35.895	149.535	176.506	1.00	114.51	J
ATOM	16228	C	ASN	J	7	36.679	153.114	177.001	1.00	109.38	J
ATOM	16229	O	ASN	J	7	37.693	152.464	176.738	1.00	109.20	J
ATOM	16230	N	GLY	J	8	36.340	154.212	176.340	1.00	107.96	J
ATOM	16231	CA	GLY	J	8	37.189	154.686	175.269	1.00	107.31	J
ATOM	16232	C	GLY	J	8	36.449	155.324	174.116	1.00	106.41	J
ATOM	16233	O	GLY	J	8	36.087	156.496	174.192	1.00	106.86	J
ATOM	16234	N	THR	J	9	36.227	154.548	173.056	1.00	105.32	J
ATOM	16235	CA	THR	J	9	35.555	155.025	171.846	1.00	104.26	J
ATOM	16236	CB	THR	J	9	34.712	153.918	171.185	1.00	103.69	J
ATOM	16237	OG1	THR	J	9	35.534	152.771	170.936	1.00	102.42	J
ATOM	16238	CG2	THR	J	9	34.138	154.416	169.860	1.00	102.57	J
ATOM	16239	C	THR	J	9	34.657	156.229	172.073	1.00	104.10	J
ATOM	16240	O	THR	J	9	33.901	156.285	173.045	1.00	104.29	J
ATOM	16241	N	ALA	J	10	34.747	157.191	171.162	1.00	103.37	J
ATOM	16242	CA	ALA	J	10	33.958	158.410	171.253	1.00	103.87	J
ATOM	16243	CB	ALA	J	10	34.870	159.593	171.543	1.00	102.78	J
ATOM	16244	C	ALA	J	10	33.181	158.655	169.966	1.00	104.21	J
ATOM	16245	O	ALA	J	10	33.539	158.143	168.900	1.00	104.80	J
ATOM	16246	N	ILE	J	11	32.111	159.436	170.074	1.00	103.23	J
ATOM	16247	CA	ILE	J	11	31.288	159.757	168.920	1.00	103.62	J
ATOM	16248	CB	ILE	J	11	29.802	159.497	169.200	1.00	103.73	J
ATOM	16249	CG2	ILE	J	11	28.993	159.798	167.961	1.00	101.97	J

ATOM	16250	CG1	ILE	J	11	29.600	158.033	169.604	1.00102.43	J
ATOM	16251	CD1	ILE	J	11	28.169	157.663	169.910	1.00 98.90	J
ATOM	16252	C	ILE	J	11	31.502	161.225	168.585	1.00104.94	J
ATOM	16253	O	ILE	J	11	31.112	162.115	169.348	1.00104.54	J
ATOM	16254	N	PRO	J	12	32.124	161.492	167.424	1.00106.18	J
ATOM	16255	CD	PRO	J	12	32.482	160.442	166.450	1.00106.53	J
ATOM	16256	CA	PRO	J	12	32.454	162.817	166.887	1.00106.72	J
ATOM	16257	CB	PRO	J	12	33.265	162.482	165.641	1.00106.25	J
ATOM	16258	CG	PRO	J	12	32.615	161.224	165.164	1.00106.70	J
ATOM	16259	C	PRO	J	12	31.308	163.774	166.578	1.00107.47	J
ATOM	16260	O	PRO	J	12	30.133	163.425	166.672	1.00108.24	J
ATOM	16261	N	ILE	J	13	31.689	164.995	166.214	1.00108.55	J
ATOM	16262	CA	ILE	J	13	30.755	166.055	165.861	1.00109.20	J
ATOM	16263	CB	ILE	J	13	31.510	167.373	165.555	1.00107.70	J
ATOM	16264	CG2	ILE	J	13	30.567	168.389	164.929	1.00106.49	J
ATOM	16265	CG1	ILE	J	13	32.156	167.911	166.830	1.00105.30	J
ATOM	16266	CD1	ILE	J	13	32.913	169.196	166.632	1.00103.21	J
ATOM	16267	C	ILE	J	13	29.990	165.646	164.612	1.00111.23	J
ATOM	16268	O	ILE	J	13	30.583	165.173	163.641	1.00112.06	J
ATOM	16269	N	GLY	J	14	28.674	165.824	164.637	1.00112.47	J
ATOM	16270	CA	GLY	J	14	27.874	165.478	163.476	1.00113.07	J
ATOM	16271	C	GLY	J	14	27.359	164.053	163.427	1.00113.04	J
ATOM	16272	O	GLY	J	14	27.003	163.558	162.358	1.00112.81	J
ATOM	16273	N	GLY	J	15	27.321	163.388	164.575	1.00113.64	J
ATOM	16274	CA	GLY	J	15	26.823	162.026	164.611	1.00114.82	J
ATOM	16275	C	GLY	J	15	27.860	160.980	164.962	1.00115.25	J
ATOM	16276	O	GLY	J	15	28.956	161.307	165.415	1.00115.95	J
ATOM	16277	N	GLY	J	16	27.498	159.715	164.753	1.00115.13	J
ATOM	16278	CA	GLY	J	16	28.398	158.615	165.046	1.00114.00	J
ATOM	16279	C	GLY	J	16	27.689	157.353	165.502	1.00112.67	J
ATOM	16280	O	GLY	J	16	26.486	157.188	165.292	1.00112.73	J
ATOM	16281	N	SER	J	17	28.452	156.460	166.125	1.00111.68	J
ATOM	16282	CA	SER	J	17	27.934	155.194	166.631	1.00111.81	J
ATOM	16283	CB	SER	J	17	27.575	154.253	165.474	1.00112.60	J
ATOM	16284	OG	SER	J	17	26.510	154.770	164.695	1.00114.38	J
ATOM	16285	C	SER	J	17	29.006	154.552	167.501	1.00110.79	J
ATOM	16286	O	SER	J	17	30.187	154.568	167.154	1.00109.08	J
ATOM	16287	N	ALA	J	18	28.593	153.987	168.632	1.00110.58	J
ATOM	16288	CA	ALA	J	18	29.534	153.355	169.549	1.00110.04	J
ATOM	16289	CB	ALA	J	18	29.843	154.297	170.704	1.00110.12	J
ATOM	16290	C	ALA	J	18	29.016	152.029	170.087	1.00109.30	J
ATOM	16291	O	ALA	J	18	28.088	151.441	169.534	1.00110.69	J
ATOM	16292	N	ASN	J	19	29.629	151.566	171.172	1.00107.07	J
ATOM	16293	CA	ASN	J	19	29.256	150.309	171.806	1.00106.12	J
ATOM	16294	CB	ASN	J	19	29.975	149.140	171.131	1.00104.81	J
ATOM	16295	CG	ASN	J	19	29.491	148.891	169.723	1.00105.58	J
ATOM	16296	OD1	ASN	J	19	28.584	148.089	169.503	1.00108.30	J
ATOM	16297	ND2	ASN	J	19	30.082	149.588	168.758	1.00104.73	J
ATOM	16298	C	ASN	J	19	29.654	150.346	173.273	1.00105.89	J
ATOM	16299	O	ASN	J	19	30.827	150.523	173.593	1.00108.30	J
ATOM	16300	N	VAL	J	20	28.686	150.189	174.165	1.00104.39	J
ATOM	16301	CA	VAL	J	20	28.986	150.182	175.592	1.00106.12	J
ATOM	16302	CB	VAL	J	20	27.973	151.041	176.382	1.00106.02	J
ATOM	16303	CG1	VAL	J	20	28.520	151.354	177.766	1.00104.19	J
ATOM	16304	CG2	VAL	J	20	27.682	152.322	175.624	1.00106.66	J
ATOM	16305	C	VAL	J	20	28.918	148.724	176.061	1.00107.62	J
ATOM	16306	O	VAL	J	20	27.964	148.014	175.740	1.00108.71	J
ATOM	16307	N	TYR	J	21	29.926	148.276	176.809	1.00106.57	J

ATOM	16308	CA	TYR	J	21	29.964	146.891	177.277	1.00103.78	J
ATOM	16309	CB	TYR	J	21	31.353	146.296	177.023	1.00 94.73	J
ATOM	16310	CG	TYR	J	21	31.749	146.379	175.573	1.00 86.23	J
ATOM	16311	CD1	TYR	J	21	32.195	147.577	175.023	1.00 85.59	J
ATOM	16312	CE1	TYR	J	21	32.461	147.693	173.661	1.00 81.63	J
ATOM	16313	CD2	TYR	J	21	31.587	145.290	174.725	1.00 86.10	J
ATOM	16314	CE2	TYR	J	21	31.848	145.395	173.360	1.00 81.74	J
ATOM	16315	CZ	TYR	J	21	32.280	146.600	172.835	1.00 79.63	J
ATOM	16316	OH	TYR	J	21	32.484	146.727	171.479	1.00 77.07	J
ATOM	16317	C	TYR	J	21	29.583	146.740	178.740	1.00105.94	J
ATOM	16318	O	TYR	J	21	30.011	145.799	179.407	1.00107.51	J
ATOM	16319	N	VAL	J	22	28.757	147.665	179.218	1.00108.11	J
ATOM	16320	CA	VAL	J	22	28.288	147.688	180.601	1.00112.10	J
ATOM	16321	CB	VAL	J	22	26.904	148.359	180.698	1.00113.50	J
ATOM	16322	CG1	VAL	J	22	26.991	149.795	180.225	1.00113.66	J
ATOM	16323	CG2	VAL	J	22	25.888	147.582	179.868	1.00114.35	J
ATOM	16324	C	VAL	J	22	28.188	146.338	181.314	1.00114.40	J
ATOM	16325	O	VAL	J	22	27.844	145.316	180.712	1.00115.70	J
ATOM	16326	N	ASN	J	23	28.497	146.353	182.608	1.00115.77	J
ATOM	16327	CA	ASN	J	23	28.417	145.159	183.436	1.00117.29	J
ATOM	16328	CB	ASN	J	23	29.589	145.092	184.422	1.00118.31	J
ATOM	16329	CG	ASN	J	23	30.936	144.964	183.726	1.00120.13	J
ATOM	16330	OD1	ASN	J	23	31.109	144.138	182.826	1.00121.37	J
ATOM	16331	ND2	ASN	J	23	31.903	145.773	184.151	1.00119.45	J
ATOM	16332	C	ASN	J	23	27.102	145.267	184.195	1.00118.46	J
ATOM	16333	O	ASN	J	23	26.717	146.354	184.634	1.00118.54	J
ATOM	16334	N	LEU	J	24	26.416	144.140	184.340	1.00119.16	J
ATOM	16335	CA	LEU	J	24	25.127	144.108	185.022	1.00118.64	J
ATOM	16336	CB	LEU	J	24	24.049	143.683	184.024	1.00117.75	J
ATOM	16337	CG	LEU	J	24	24.277	144.198	182.599	1.00116.92	J
ATOM	16338	CD1	LEU	J	24	23.317	143.519	181.647	1.00115.58	J
ATOM	16339	CD2	LEU	J	24	24.119	145.712	182.563	1.00117.79	J
ATOM	16340	C	LEU	J	24	25.163	143.122	186.186	1.00118.49	J
ATOM	16341	O	LEU	J	24	25.820	142.086	186.092	1.00118.02	J
ATOM	16342	N	ALA	J	25	24.464	143.446	187.275	1.00117.94	J
ATOM	16343	CA	ALA	J	25	24.412	142.566	188.441	1.00118.35	J
ATOM	16344	CB	ALA	J	25	23.271	142.980	189.355	1.00115.77	J
ATOM	16345	C	ALA	J	25	24.189	141.148	187.924	1.00120.33	J
ATOM	16346	O	ALA	J	25	23.061	140.759	187.638	1.00121.94	J
ATOM	16347	N	PRO	J	26	25.272	140.360	187.799	1.00121.90	J
ATOM	16348	CD	PRO	J	26	26.607	140.702	188.323	1.00123.29	J
ATOM	16349	CA	PRO	J	26	25.262	138.976	187.310	1.00122.03	J
ATOM	16350	CB	PRO	J	26	26.591	138.428	187.818	1.00122.72	J
ATOM	16351	CG	PRO	J	26	27.477	139.617	187.722	1.00122.84	J
ATOM	16352	C	PRO	J	26	24.081	138.103	187.720	1.00121.39	J
ATOM	16353	O	PRO	J	26	23.754	137.145	187.023	1.00121.25	J
ATOM	16354	N	VAL	J	27	23.443	138.421	188.842	1.00120.74	J
ATOM	16355	CA	VAL	J	27	22.309	137.624	189.292	1.00120.26	J
ATOM	16356	CB	VAL	J	27	22.732	136.633	190.390	1.00120.56	J
ATOM	16357	CG1	VAL	J	27	21.518	135.878	190.911	1.00120.09	J
ATOM	16358	CG2	VAL	J	27	23.756	135.659	189.833	1.00121.30	J
ATOM	16359	C	VAL	J	27	21.127	138.440	189.800	1.00120.67	J
ATOM	16360	O	VAL	J	27	21.159	138.996	190.899	1.00119.81	J
ATOM	16361	N	VAL	J	28	20.081	138.491	188.980	1.00121.58	J
ATOM	16362	CA	VAL	J	28	18.855	139.212	189.301	1.00120.49	J
ATOM	16363	CB	VAL	J	28	18.554	140.307	188.261	1.00121.43	J
ATOM	16364	CG1	VAL	J	28	17.352	141.127	188.711	1.00123.03	J
ATOM	16365	CG2	VAL	J	28	19.772	141.191	188.060	1.00122.67	J

ATOM	16366	C	VAL	J	28	17.697	138.224	189.278	1.00119.19	J
ATOM	16367	O	VAL	J	28	17.547	137.462	188.327	1.00118.55	J
ATOM	16368	N	ASN	J	29	16.876	138.240	190.319	1.00118.78	J
ATOM	16369	CA	ASN	J	29	15.737	137.334	190.387	1.00119.25	J
ATOM	16370	CB	ASN	J	29	15.589	136.787	191.805	1.00117.52	J
ATOM	16371	CG	ASN	J	29	16.733	135.880	192.194	1.00114.22	J
ATOM	16372	OD1	ASN	J	29	16.996	134.882	191.527	1.00112.60	J
ATOM	16373	ND2	ASN	J	29	17.421	136.222	193.275	1.00113.70	J
ATOM	16374	C	ASN	J	29	14.443	138.015	189.952	1.00119.88	J
ATOM	16375	O	ASN	J	29	14.336	139.242	189.991	1.00120.97	J
ATOM	16376	N	VAL	J	30	13.467	137.213	189.532	1.00119.66	J
ATOM	16377	CA	VAL	J	30	12.177	137.739	189.084	1.00119.56	J
ATOM	16378	CB	VAL	J	30	11.175	136.598	188.766	1.00118.16	J
ATOM	16379	CG1	VAL	J	30	9.860	137.180	188.273	1.00117.69	J
ATOM	16380	CG2	VAL	J	30	11.754	135.666	187.716	1.00115.99	J
ATOM	16381	C	VAL	J	30	11.560	138.657	190.141	1.00119.76	J
ATOM	16382	O	VAL	J	30	11.833	138.521	191.336	1.00120.48	J
ATOM	16383	N	GLY	J	31	10.727	139.591	189.694	1.00118.82	J
ATOM	16384	CA	GLY	J	31	10.101	140.515	190.619	1.00117.21	J
ATOM	16385	C	GLY	J	31	11.007	141.706	190.851	1.00115.75	J
ATOM	16386	O	GLY	J	31	10.598	142.853	190.663	1.00116.56	J
ATOM	16387	N	GLN	J	32	12.247	141.430	191.251	1.00113.33	J
ATOM	16388	CA	GLN	J	32	13.227	142.480	191.506	1.00109.71	J
ATOM	16389	CB	GLN	J	32	14.540	141.875	192.005	1.00108.93	J
ATOM	16390	CG	GLN	J	32	14.493	141.527	193.484	1.00109.47	J
ATOM	16391	CD	GLN	J	32	15.728	140.799	193.962	1.00110.73	J
ATOM	16392	OE1	GLN	J	32	16.852	141.244	193.733	1.00110.39	J
ATOM	16393	NE2	GLN	J	32	15.525	139.673	194.642	1.00110.29	J
ATOM	16394	C	GLN	J	32	13.461	143.345	190.273	1.00107.20	J
ATOM	16395	O	GLN	J	32	12.785	143.179	189.255	1.00107.18	J
ATOM	16396	N	ASN	J	33	14.430	144.253	190.352	1.00102.90	J
ATOM	16397	CA	ASN	J	33	14.670	145.169	189.247	1.00 98.74	J
ATOM	16398	CB	ASN	J	33	14.104	146.536	189.643	1.00 97.83	J
ATOM	16399	CG	ASN	J	33	13.935	147.466	188.469	1.00 98.09	J
ATOM	16400	OD1	ASN	J	33	13.447	148.582	188.628	1.00 99.93	J
ATOM	16401	ND2	ASN	J	33	14.332	147.017	187.283	1.00 98.22	J
ATOM	16402	C	ASN	J	33	16.110	145.338	188.752	1.00 94.57	J
ATOM	16403	O	ASN	J	33	16.933	145.955	189.424	1.00 93.94	J
ATOM	16404	N	LEU	J	34	16.406	144.800	187.570	1.00 89.43	J
ATOM	16405	CA	LEU	J	34	17.737	144.949	186.992	1.00 85.51	J
ATOM	16406	CB	LEU	J	34	17.879	144.105	185.721	1.00 80.60	J
ATOM	16407	CG	LEU	J	34	19.117	144.337	184.845	1.00 77.68	J
ATOM	16408	CD1	LEU	J	34	20.369	144.355	185.697	1.00 80.79	J
ATOM	16409	CD2	LEU	J	34	19.216	143.244	183.795	1.00 74.29	J
ATOM	16410	C	LEU	J	34	17.858	146.426	186.653	1.00 86.57	J
ATOM	16411	O	LEU	J	34	16.855	147.133	186.637	1.00 87.36	J
ATOM	16412	N	VAL	J	35	19.074	146.899	186.401	1.00 88.05	J
ATOM	16413	CA	VAL	J	35	19.299	148.308	186.077	1.00 88.15	J
ATOM	16414	CB	VAL	J	35	19.510	149.160	187.358	1.00 86.31	J
ATOM	16415	CG1	VAL	J	35	19.891	150.580	186.979	1.00 87.34	J
ATOM	16416	CG2	VAL	J	35	18.245	149.173	188.200	1.00 85.16	J
ATOM	16417	C	VAL	J	35	20.514	148.505	185.177	1.00 89.07	J
ATOM	16418	O	VAL	J	35	21.573	147.917	185.411	1.00 90.09	J
ATOM	16419	N	VAL	J	36	20.362	149.334	184.148	1.00 88.85	J
ATOM	16420	CA	VAL	J	36	21.467	149.604	183.238	1.00 90.06	J
ATOM	16421	CB	VAL	J	36	21.278	148.895	181.878	1.00 89.64	J
ATOM	16422	CG1	VAL	J	36	22.488	149.144	180.980	1.00 86.74	J
ATOM	16423	CG2	VAL	J	36	21.082	147.403	182.095	1.00 92.02	J

ATOM	16424	C	VAL	J	36	21.606	151.099	182.999	1.00	91.43	J
ATOM	16425	O	VAL	J	36	21.245	151.604	181.936	1.00	93.08	J
ATOM	16426	N	ASP	J	37	22.128	151.803	184.001	1.00	91.53	J
ATOM	16427	CA	ASP	J	37	22.332	153.248	183.909	1.00	91.00	J
ATOM	16428	CB	ASP	J	37	22.459	153.858	185.306	1.00	90.15	J
ATOM	16429	CG	ASP	J	37	23.190	155.179	185.292	1.00	87.57	J
ATOM	16430	OD1	ASP	J	37	22.771	156.087	184.547	1.00	84.55	J
ATOM	16431	OD2	ASP	J	37	24.188	155.303	186.026	1.00	93.14	J
ATOM	16432	C	ASP	J	37	23.576	153.592	183.086	1.00	87.64	J
ATOM	16433	O	ASP	J	37	24.675	153.135	183.387	1.00	87.20	J
ATOM	16434	N	LEU	J	38	23.394	154.409	182.055	1.00	84.38	J
ATOM	16435	CA	LEU	J	38	24.500	154.787	181.194	1.00	84.77	J
ATOM	16436	CB	LEU	J	38	24.072	154.675	179.730	1.00	84.66	J
ATOM	16437	CG	LEU	J	38	23.581	153.289	179.302	1.00	82.49	J
ATOM	16438	CD1	LEU	J	38	23.317	153.314	177.816	1.00	82.74	J
ATOM	16439	CD2	LEU	J	38	24.611	152.219	179.633	1.00	77.84	J
ATOM	16440	C	LEU	J	38	25.065	156.179	181.482	1.00	84.16	J
ATOM	16441	O	LEU	J	38	26.031	156.609	180.846	1.00	82.77	J
ATOM	16442	N	SER	J	39	24.468	156.883	182.440	1.00	82.98	J
ATOM	16443	CA	SER	J	39	24.961	158.201	182.815	1.00	83.04	J
ATOM	16444	CB	SER	J	39	23.917	158.962	183.633	1.00	85.52	J
ATOM	16445	OG	SER	J	39	23.760	158.393	184.920	1.00	86.82	J
ATOM	16446	C	SER	J	39	26.190	157.911	183.671	1.00	82.81	J
ATOM	16447	O	SER	J	39	26.455	158.561	184.683	1.00	81.55	J
ATOM	16448	N	THR	J	40	26.933	156.904	183.238	1.00	83.39	J
ATOM	16449	CA	THR	J	40	28.129	156.463	183.921	1.00	84.73	J
ATOM	16450	CB	THR	J	40	27.768	155.684	185.216	1.00	84.11	J
ATOM	16451	OG1	THR	J	40	26.971	156.519	186.068	1.00	81.47	J
ATOM	16452	CG2	THR	J	40	29.026	155.265	185.966	1.00	83.77	J
ATOM	16453	C	THR	J	40	28.826	155.542	182.930	1.00	85.97	J
ATOM	16454	O	THR	J	40	29.507	154.588	183.310	1.00	87.07	J
ATOM	16455	N	GLN	J	41	28.633	155.836	181.648	1.00	86.73	J
ATOM	16456	CA	GLN	J	41	29.227	155.056	180.568	1.00	90.20	J
ATOM	16457	CB	GLN	J	41	28.401	153.800	180.292	1.00	93.65	J
ATOM	16458	CG	GLN	J	41	28.223	152.842	181.457	1.00	100.30	J
ATOM	16459	CD	GLN	J	41	29.462	152.025	181.748	1.00	102.03	J
ATOM	16460	OE1	GLN	J	41	30.120	151.527	180.833	1.00	106.34	J
ATOM	16461	NE2	GLN	J	41	29.778	151.865	183.029	1.00	105.70	J
ATOM	16462	C	GLN	J	41	29.239	155.896	179.295	1.00	91.90	J
ATOM	16463	O	GLN	J	41	29.884	155.533	178.310	1.00	91.90	J
ATOM	16464	N	ILE	J	42	28.512	157.012	179.318	1.00	92.82	J
ATOM	16465	CA	ILE	J	42	28.404	157.899	178.157	1.00	91.79	J
ATOM	16466	CB	ILE	J	42	27.235	157.473	177.255	1.00	90.69	J
ATOM	16467	CG2	ILE	J	42	26.978	158.533	176.194	1.00	85.32	J
ATOM	16468	CG1	ILE	J	42	27.533	156.108	176.636	1.00	88.52	J
ATOM	16469	CD1	ILE	J	42	26.316	155.414	176.091	1.00	90.41	J
ATOM	16470	C	ILE	J	42	28.178	159.356	178.552	1.00	93.07	J
ATOM	16471	O	ILE	J	42	27.219	159.682	179.260	1.00	91.93	J
ATOM	16472	N	PHE	J	43	29.055	160.233	178.070	1.00	93.68	J
ATOM	16473	CA	PHE	J	43	28.961	161.655	178.379	1.00	91.47	J
ATOM	16474	CB	PHE	J	43	29.985	162.040	179.452	1.00	87.73	J
ATOM	16475	CG	PHE	J	43	30.279	160.944	180.429	1.00	84.12	J
ATOM	16476	CD1	PHE	J	43	30.996	159.823	180.025	1.00	81.27	J
ATOM	16477	CD2	PHE	J	43	29.816	161.015	181.741	1.00	84.24	J
ATOM	16478	CE1	PHE	J	43	31.248	158.788	180.899	1.00	83.71	J
ATOM	16479	CE2	PHE	J	43	30.061	159.980	182.635	1.00	86.04	J
ATOM	16480	CZ	PHE	J	43	30.780	158.860	182.210	1.00	87.31	J
ATOM	16481	C	PHE	J	43	29.210	162.486	177.136	1.00	90.87	J

ATOM	16482	O	PHE	J	43	29.999	162.111	176.269	1.00	89.23	J
ATOM	16483	N	CYS	J	44	28.527	163.618	177.056	1.00	93.41	J
ATOM	16484	CA	CYS	J	44	28.682	164.521	175.930	1.00	95.72	J
ATOM	16485	C	CYS	J	44	28.984	165.900	176.491	1.00	97.50	J
ATOM	16486	O	CYS	J	44	28.879	166.127	177.695	1.00	95.99	J
ATOM	16487	CB	CYS	J	44	27.399	164.585	175.106	1.00	94.84	J
ATOM	16488	SG	CYS	J	44	26.681	162.981	174.631	1.00	91.90	J
ATOM	16489	N	HIS	J	45	29.347	166.823	175.611	1.00	101.20	J
ATOM	16490	CA	HIS	J	45	29.670	168.183	176.017	1.00	103.27	J
ATOM	16491	CB	HIS	J	45	31.150	168.279	176.400	1.00	103.07	J
ATOM	16492	CG	HIS	J	45	32.080	168.045	175.248	1.00	105.46	J
ATOM	16493	CD2	HIS	J	45	32.987	168.856	174.654	1.00	106.68	J
ATOM	16494	ND1	HIS	J	45	32.097	166.865	174.534	1.00	106.78	J
ATOM	16495	CE1	HIS	J	45	32.971	166.960	173.548	1.00	105.09	J
ATOM	16496	NE2	HIS	J	45	33.525	168.159	173.599	1.00	107.63	J
ATOM	16497	C	HIS	J	45	29.398	169.109	174.837	1.00	105.05	J
ATOM	16498	O	HIS	J	45	29.397	168.675	173.680	1.00	104.33	J
ATOM	16499	N	ASN	J	46	29.166	170.383	175.134	1.00	107.35	J
ATOM	16500	CA	ASN	J	46	28.917	171.381	174.101	1.00	107.33	J
ATOM	16501	CB	ASN	J	46	28.143	172.560	174.689	1.00	103.35	J
ATOM	16502	CG	ASN	J	46	27.529	173.432	173.625	1.00	101.88	J
ATOM	16503	OD1	ASN	J	46	28.085	173.584	172.544	1.00	100.62	J
ATOM	16504	ND2	ASN	J	46	26.380	174.024	173.929	1.00	101.53	J
ATOM	16505	C	ASN	J	46	30.288	171.857	173.608	1.00	109.20	J
ATOM	16506	O	ASN	J	46	31.200	172.076	174.413	1.00	110.45	J
ATOM	16507	N	ASP	J	47	30.446	171.998	172.296	1.00	108.94	J
ATOM	16508	CA	ASP	J	47	31.718	172.454	171.742	1.00	109.08	J
ATOM	16509	CB	ASP	J	47	31.978	171.808	170.384	1.00	109.09	J
ATOM	16510	CG	ASP	J	47	32.373	170.358	170.502	1.00	111.76	J
ATOM	16511	OD1	ASP	J	47	33.150	170.034	171.425	1.00	114.68	J
ATOM	16512	OD2	ASP	J	47	31.921	169.545	169.669	1.00	113.15	J
ATOM	16513	C	ASP	J	47	31.779	173.973	171.599	1.00	109.74	J
ATOM	16514	O	ASP	J	47	32.822	174.586	171.834	1.00	110.54	J
ATOM	16515	N	TYR	J	48	30.656	174.571	171.211	1.00	109.28	J
ATOM	16516	CA	TYR	J	48	30.546	176.018	171.030	1.00	107.98	J
ATOM	16517	CB	TYR	J	48	30.172	176.322	169.576	1.00	108.85	J
ATOM	16518	CG	TYR	J	48	31.070	175.660	168.545	1.00	112.89	J
ATOM	16519	CD1	TYR	J	48	30.587	175.351	167.273	1.00	114.56	J
ATOM	16520	CE1	TYR	J	48	31.405	174.748	166.316	1.00	115.85	J
ATOM	16521	CD2	TYR	J	48	32.401	175.350	168.833	1.00	112.75	J
ATOM	16522	CE2	TYR	J	48	33.226	174.748	167.879	1.00	113.77	J
ATOM	16523	CZ	TYR	J	48	32.719	174.452	166.626	1.00	115.24	J
ATOM	16524	OH	TYR	J	48	33.515	173.857	165.680	1.00	115.83	J
ATOM	16525	C	TYR	J	48	29.442	176.511	171.971	1.00	106.47	J
ATOM	16526	O	TYR	J	48	28.406	177.006	171.522	1.00	106.15	J
ATOM	16527	N	PRO	J	49	29.662	176.390	173.293	1.00	104.79	J
ATOM	16528	CD	PRO	J	49	30.907	175.886	173.904	1.00	102.80	J
ATOM	16529	CA	PRO	J	49	28.713	176.795	174.335	1.00	104.29	J
ATOM	16530	CB	PRO	J	49	29.333	176.210	175.600	1.00	103.55	J
ATOM	16531	CG	PRO	J	49	30.783	176.358	175.337	1.00	103.70	J
ATOM	16532	C	PRO	J	49	28.381	178.274	174.496	1.00	104.38	J
ATOM	16533	O	PRO	J	49	27.317	178.608	175.011	1.00	104.45	J
ATOM	16534	N	GLU	J	50	29.279	179.160	174.075	1.00	104.72	J
ATOM	16535	CA	GLU	J	50	29.034	180.594	174.217	1.00	104.30	J
ATOM	16536	CB	GLU	J	50	30.344	181.376	174.068	1.00	106.14	J
ATOM	16537	CG	GLU	J	50	31.133	181.539	175.364	1.00	108.16	J
ATOM	16538	CD	GLU	J	50	31.629	180.223	175.934	1.00	111.77	J
ATOM	16539	OE1	GLU	J	50	32.321	179.481	175.202	1.00	112.54	J

ATOM	16540	OE2	GLU	J	50	31.336	179.935	177.116	1.00114.16	J
ATOM	16541	C	GLU	J	50	27.989	181.154	173.255	1.00102.49	J
ATOM	16542	O	GLU	J	50	27.561	182.300	173.395	1.00102.20	J
ATOM	16543	N	THR	J	51	27.571	180.351	172.285	1.00101.54	J
ATOM	16544	CA	THR	J	51	26.573	180.806	171.325	1.00101.62	J
ATOM	16545	CB	THR	J	51	27.189	181.035	169.938	1.00103.70	J
ATOM	16546	OG1	THR	J	51	28.387	181.807	170.068	1.00106.36	J
ATOM	16547	CG2	THR	J	51	26.206	181.778	169.039	1.00101.66	J
ATOM	16548	C	THR	J	51	25.471	179.779	171.166	1.00 99.30	J
ATOM	16549	O	THR	J	51	24.292	180.075	171.343	1.00 97.15	J
ATOM	16550	N	ILE	J	52	25.876	178.563	170.832	1.00 99.21	J
ATOM	16551	CA	ILE	J	52	24.940	177.473	170.610	1.00101.48	J
ATOM	16552	CB	ILE	J	52	25.592	176.364	169.769	1.00101.55	J
ATOM	16553	CG2	ILE	J	52	24.518	175.496	169.137	1.00 98.74	J
ATOM	16554	CG1	ILE	J	52	26.476	176.989	168.687	1.00103.02	J
ATOM	16555	CD1	ILE	J	52	27.296	175.981	167.909	1.00103.71	J
ATOM	16556	C	ILE	J	52	24.409	176.832	171.886	1.00101.83	J
ATOM	16557	O	ILE	J	52	25.066	176.835	172.926	1.00103.62	J
ATOM	16558	N	THR	J	53	23.204	176.280	171.782	1.00101.44	J
ATOM	16559	CA	THR	J	53	22.551	175.588	172.888	1.00 99.62	J
ATOM	16560	CB	THR	J	53	21.286	176.346	173.373	1.00100.92	J
ATOM	16561	OG1	THR	J	53	21.645	177.663	173.811	1.00103.08	J
ATOM	16562	CG2	THR	J	53	20.639	175.611	174.529	1.00102.46	J
ATOM	16563	C	THR	J	53	22.139	174.221	172.331	1.00 97.22	J
ATOM	16564	O	THR	J	53	21.225	174.131	171.504	1.00 95.74	J
ATOM	16565	N	ASP	J	54	22.829	173.165	172.766	1.00 94.65	J
ATOM	16566	CA	ASP	J	54	22.539	171.811	172.290	1.00 90.77	J
ATOM	16567	CB	ASP	J	54	23.785	170.923	172.379	1.00 93.25	J
ATOM	16568	CG	ASP	J	54	24.801	171.222	171.284	1.00 93.31	J
ATOM	16569	OD1	ASP	J	54	24.455	171.105	170.085	1.00 91.24	J
ATOM	16570	OD2	ASP	J	54	25.951	171.568	171.628	1.00 94.78	J
ATOM	16571	C	ASP	J	54	21.376	171.125	172.996	1.00 85.24	J
ATOM	16572	O	ASP	J	54	21.236	171.183	174.220	1.00 81.27	J
ATOM	16573	N	TYR	J	55	20.555	170.465	172.187	1.00 82.65	J
ATOM	16574	CA	TYR	J	55	19.367	169.755	172.641	1.00 79.29	J
ATOM	16575	CB	TYR	J	55	18.152	170.286	171.884	1.00 76.71	J
ATOM	16576	CG	TYR	J	55	17.922	171.766	172.080	1.00 73.69	J
ATOM	16577	CD1	TYR	J	55	17.249	172.522	171.117	1.00 72.73	J
ATOM	16578	CE1	TYR	J	55	16.999	173.874	171.311	1.00 71.93	J
ATOM	16579	CD2	TYR	J	55	18.343	172.405	173.241	1.00 71.69	J
ATOM	16580	CE2	TYR	J	55	18.100	173.753	173.444	1.00 74.88	J
ATOM	16581	CZ	TYR	J	55	17.426	174.483	172.476	1.00 74.53	J
ATOM	16582	OH	TYR	J	55	17.175	175.822	172.683	1.00 77.60	J
ATOM	16583	C	TYR	J	55	19.507	168.260	172.399	1.00 77.06	J
ATOM	16584	O	TYR	J	55	19.411	167.793	171.263	1.00 76.49	J
ATOM	16585	N	VAL	J	56	19.737	167.517	173.474	1.00 75.54	J
ATOM	16586	CA	VAL	J	56	19.887	166.076	173.378	1.00 76.61	J
ATOM	16587	CB	VAL	J	56	21.024	165.571	174.280	1.00 78.15	J
ATOM	16588	CG1	VAL	J	56	21.118	164.047	174.216	1.00 77.20	J
ATOM	16589	CG2	VAL	J	56	22.323	166.196	173.841	1.00 76.40	J
ATOM	16590	C	VAL	J	56	18.595	165.376	173.762	1.00 77.01	J
ATOM	16591	O	VAL	J	56	17.931	165.740	174.733	1.00 75.67	J
ATOM	16592	N	THR	J	57	18.255	164.359	172.983	1.00 77.69	J
ATOM	16593	CA	THR	J	57	17.044	163.595	173.201	1.00 80.01	J
ATOM	16594	CB	THR	J	57	15.911	164.139	172.316	1.00 79.86	J
ATOM	16595	OG1	THR	J	57	14.863	163.169	172.216	1.00 81.01	J
ATOM	16596	CG2	THR	J	57	16.439	164.449	170.930	1.00 82.79	J
ATOM	16597	C	THR	J	57	17.269	162.133	172.856	1.00 81.20	J

ATOM	16598	O	THR	J	57	18.161	161.804	172.075	1.00	85.08	J
ATOM	16599	N	LEU	J	58	16.461	161.261	173.450	1.00	80.11	J
ATOM	16600	CA	LEU	J	58	16.528	159.825	173.188	1.00	79.14	J
ATOM	16601	CB	LEU	J	58	16.293	159.026	174.482	1.00	79.97	J
ATOM	16602	CG	LEU	J	58	16.183	157.494	174.382	1.00	79.02	J
ATOM	16603	CD1	LEU	J	58	17.475	156.895	173.846	1.00	74.54	J
ATOM	16604	CD2	LEU	J	58	15.859	156.924	175.753	1.00	75.89	J
ATOM	16605	C	LEU	J	58	15.440	159.498	172.161	1.00	76.94	J
ATOM	16606	O	LEU	J	58	14.260	159.392	172.502	1.00	76.65	J
ATOM	16607	N	GLN	J	59	15.850	159.361	170.904	1.00	75.17	J
ATOM	16608	CA	GLN	J	59	14.939	159.063	169.808	1.00	75.26	J
ATOM	16609	CB	GLN	J	59	15.690	159.150	168.481	1.00	78.85	J
ATOM	16610	CG	GLN	J	59	15.673	160.504	167.816	1.00	85.90	J
ATOM	16611	CD	GLN	J	59	14.646	160.592	166.700	1.00	88.16	J
ATOM	16612	OE1	GLN	J	59	13.441	160.607	166.947	1.00	91.14	J
ATOM	16613	NE2	GLN	J	59	15.123	160.641	165.460	1.00	89.54	J
ATOM	16614	C	GLN	J	59	14.297	157.689	169.908	1.00	73.69	J
ATOM	16615	O	GLN	J	59	13.094	157.556	170.105	1.00	71.18	J
ATOM	16616	N	ARG	J	60	15.126	156.668	169.755	1.00	75.20	J
ATOM	16617	CA	ARG	J	60	14.673	155.289	169.787	1.00	76.50	J
ATOM	16618	CB	ARG	J	60	15.001	154.617	168.444	1.00	79.06	J
ATOM	16619	CG	ARG	J	60	14.599	153.158	168.321	1.00	84.96	J
ATOM	16620	CD	ARG	J	60	13.091	152.996	168.290	1.00	92.58	J
ATOM	16621	NE	ARG	J	60	12.480	153.842	167.268	1.00	100.31	J
ATOM	16622	CZ	ARG	J	60	11.197	153.797	166.915	1.00	103.03	J
ATOM	16623	NH1	ARG	J	60	10.373	152.936	167.501	1.00	103.76	J
ATOM	16624	NH2	ARG	J	60	10.735	154.621	165.980	1.00	103.29	J
ATOM	16625	C	ARG	J	60	15.312	154.506	170.932	1.00	75.71	J
ATOM	16626	O	ARG	J	60	16.262	154.961	171.573	1.00	75.21	J
ATOM	16627	N	GLY	J	61	14.760	153.327	171.179	1.00	74.82	J
ATOM	16628	CA	GLY	J	61	15.258	152.455	172.218	1.00	75.64	J
ATOM	16629	C	GLY	J	61	14.811	151.068	171.819	1.00	76.73	J
ATOM	16630	O	GLY	J	61	13.626	150.753	171.904	1.00	79.02	J
ATOM	16631	N	SER	J	62	15.748	150.244	171.363	1.00	76.18	J
ATOM	16632	CA	SER	J	62	15.426	148.888	170.937	1.00	75.03	J
ATOM	16633	CB	SER	J	62	16.079	148.617	169.585	1.00	74.69	J
ATOM	16634	OG	SER	J	62	15.832	149.694	168.701	1.00	71.79	J
ATOM	16635	C	SER	J	62	15.877	147.844	171.963	1.00	74.73	J
ATOM	16636	O	SER	J	62	16.749	148.107	172.785	1.00	72.39	J
ATOM	16637	N	ALA	J	63	15.270	146.663	171.914	1.00	75.04	J
ATOM	16638	CA	ALA	J	63	15.607	145.584	172.839	1.00	73.71	J
ATOM	16639	CB	ALA	J	63	14.425	145.301	173.764	1.00	73.11	J
ATOM	16640	C	ALA	J	63	15.984	144.322	172.062	1.00	72.91	J
ATOM	16641	O	ALA	J	63	15.408	144.036	171.008	1.00	72.81	J
ATOM	16642	N	TYR	J	64	16.964	143.578	172.573	1.00	72.28	J
ATOM	16643	CA	TYR	J	64	17.410	142.352	171.921	1.00	68.90	J
ATOM	16644	CB	TYR	J	64	18.664	142.619	171.088	1.00	69.56	J
ATOM	16645	CG	TYR	J	64	18.513	143.782	170.133	1.00	72.17	J
ATOM	16646	CD1	TYR	J	64	18.457	145.093	170.605	1.00	77.22	J
ATOM	16647	CE1	TYR	J	64	18.245	146.174	169.736	1.00	75.07	J
ATOM	16648	CD2	TYR	J	64	18.366	143.574	168.765	1.00	73.14	J
ATOM	16649	CE2	TYR	J	64	18.159	144.648	167.885	1.00	72.71	J
ATOM	16650	CZ	TYR	J	64	18.096	145.943	168.381	1.00	72.67	J
ATOM	16651	OH	TYR	J	64	17.861	147.000	167.534	1.00	67.78	J
ATOM	16652	C	TYR	J	64	17.699	141.289	172.962	1.00	67.77	J
ATOM	16653	O	TYR	J	64	17.694	141.566	174.164	1.00	66.73	J
ATOM	16654	N	GLY	J	65	17.932	140.068	172.491	1.00	67.70	J
ATOM	16655	CA	GLY	J	65	18.229	138.964	173.387	1.00	69.32	J

ATOM	16656	C	GLY	J	65	17.326	138.817	174.601	1.00	70.66	J
ATOM	16657	O	GLY	J	65	16.126	139.073	174.551	1.00	70.85	J
ATOM	16658	N	GLY	J	66	17.922	138.400	175.708	1.00	73.74	J
ATOM	16659	CA	GLY	J	66	17.173	138.196	176.931	1.00	78.06	J
ATOM	16660	C	GLY	J	66	16.422	139.397	177.469	1.00	81.07	J
ATOM	16661	O	GLY	J	66	15.534	139.241	178.307	1.00	84.09	J
ATOM	16662	N	VAL	J	67	16.767	140.598	177.020	1.00	82.27	J
ATOM	16663	CA	VAL	J	67	16.057	141.779	177.503	1.00	83.27	J
ATOM	16664	CB	VAL	J	67	16.875	143.074	177.270	1.00	86.91	J
ATOM	16665	CG1	VAL	J	67	15.990	144.303	177.501	1.00	88.98	J
ATOM	16666	CG2	VAL	J	67	18.067	143.117	178.230	1.00	87.80	J
ATOM	16667	C	VAL	J	67	14.726	141.880	176.763	1.00	79.81	J
ATOM	16668	O	VAL	J	67	13.677	142.152	177.357	1.00	78.54	J
ATOM	16669	N	LEU	J	68	14.788	141.639	175.460	1.00	74.78	J
ATOM	16670	CA	LEU	J	68	13.614	141.682	174.608	1.00	71.80	J
ATOM	16671	CB	LEU	J	68	14.040	141.435	173.160	1.00	62.85	J
ATOM	16672	CG	LEU	J	68	12.942	141.441	172.101	1.00	58.07	J
ATOM	16673	CD1	LEU	J	68	12.113	142.719	172.195	1.00	54.39	J
ATOM	16674	CD2	LEU	J	68	13.585	141.325	170.742	1.00	52.99	J
ATOM	16675	C	LEU	J	68	12.557	140.649	175.019	1.00	73.69	J
ATOM	16676	O	LEU	J	68	11.355	140.923	174.980	1.00	77.44	J
ATOM	16677	N	SER	J	69	13.009	139.474	175.440	1.00	71.27	J
ATOM	16678	CA	SER	J	69	12.102	138.406	175.812	1.00	68.37	J
ATOM	16679	CB	SER	J	69	12.518	137.138	175.078	1.00	70.20	J
ATOM	16680	OG	SER	J	69	13.876	136.849	175.354	1.00	74.78	J
ATOM	16681	C	SER	J	69	11.963	138.084	177.295	1.00	66.87	J
ATOM	16682	O	SER	J	69	10.915	137.607	177.723	1.00	66.11	J
ATOM	16683	N	ASN	J	70	12.993	138.338	178.091	1.00	64.97	J
ATOM	16684	CA	ASN	J	70	12.908	137.991	179.502	1.00	64.67	J
ATOM	16685	CB	ASN	J	70	14.187	137.282	179.921	1.00	66.73	J
ATOM	16686	CG	ASN	J	70	14.322	135.913	179.279	1.00	72.66	J
ATOM	16687	OD1	ASN	J	70	13.681	134.946	179.714	1.00	75.54	J
ATOM	16688	ND2	ASN	J	70	15.141	135.823	178.226	1.00	70.22	J
ATOM	16689	C	ASN	J	70	12.583	139.086	180.499	1.00	66.85	J
ATOM	16690	O	ASN	J	70	12.475	138.813	181.699	1.00	68.91	J
ATOM	16691	N	PHE	J	71	12.415	140.318	180.026	1.00	66.85	J
ATOM	16692	CA	PHE	J	71	12.093	141.407	180.942	1.00	63.05	J
ATOM	16693	CB	PHE	J	71	13.320	142.260	181.253	1.00	63.23	J
ATOM	16694	CG	PHE	J	71	14.480	141.485	181.792	1.00	63.49	J
ATOM	16695	CD1	PHE	J	71	15.308	140.758	180.933	1.00	61.06	J
ATOM	16696	CD2	PHE	J	71	14.749	141.481	183.155	1.00	57.67	J
ATOM	16697	CE1	PHE	J	71	16.387	140.042	181.428	1.00	62.36	J
ATOM	16698	CE2	PHE	J	71	15.826	140.768	183.660	1.00	60.06	J
ATOM	16699	CZ	PHE	J	71	16.647	140.046	182.798	1.00	61.22	J
ATOM	16700	C	PHE	J	71	11.024	142.338	180.445	1.00	61.02	J
ATOM	16701	O	PHE	J	71	10.731	142.409	179.264	1.00	58.23	J
ATOM	16702	N	SER	J	72	10.454	143.059	181.395	1.00	64.24	J
ATOM	16703	CA	SER	J	72	9.437	144.063	181.145	1.00	66.86	J
ATOM	16704	CB	SER	J	72	8.201	143.807	182.005	1.00	63.75	J
ATOM	16705	OG	SER	J	72	8.545	143.785	183.382	1.00	60.72	J
ATOM	16706	C	SER	J	72	10.156	145.295	181.656	1.00	71.58	J
ATOM	16707	O	SER	J	72	11.045	145.179	182.502	1.00	72.02	J
ATOM	16708	N	GLY	J	73	9.804	146.471	181.159	1.00	76.08	J
ATOM	16709	CA	GLY	J	73	10.494	147.639	181.658	1.00	79.34	J
ATOM	16710	C	GLY	J	73	10.375	148.937	180.899	1.00	79.15	J
ATOM	16711	O	GLY	J	73	9.663	149.051	179.901	1.00	79.44	J
ATOM	16712	N	THR	J	74	11.117	149.917	181.399	1.00	79.31	J
ATOM	16713	CA	THR	J	74	11.131	151.256	180.847	1.00	80.13	J

ATOM	16714	CB	THR	J	74	10.175	152.151	181.623	1.00	79.10	J
ATOM	16715	OG1	THR	J	74	10.505	152.084	183.014	1.00	76.53	J
ATOM	16716	CG2	THR	J	74	8.739	151.704	181.414	1.00	81.44	J
ATOM	16717	C	THR	J	74	12.512	151.891	180.923	1.00	78.98	J
ATOM	16718	O	THR	J	74	13.426	151.364	181.557	1.00	77.63	J
ATOM	16719	N	VAL	J	75	12.640	153.040	180.271	1.00	79.10	J
ATOM	16720	CA	VAL	J	75	13.879	153.793	180.258	1.00	76.59	J
ATOM	16721	CB	VAL	J	75	14.361	154.053	178.821	1.00	73.32	J
ATOM	16722	CG1	VAL	J	75	13.300	154.809	178.044	1.00	75.08	J
ATOM	16723	CG2	VAL	J	75	15.657	154.826	178.846	1.00	73.50	J
ATOM	16724	C	VAL	J	75	13.626	155.126	180.951	1.00	77.95	J
ATOM	16725	O	VAL	J	75	12.750	155.894	180.547	1.00	78.13	J
ATOM	16726	N	LYS	J	76	14.377	155.374	182.020	1.00	78.85	J
ATOM	16727	CA	LYS	J	76	14.278	156.619	182.775	1.00	77.95	J
ATOM	16728	CB	LYS	J	76	14.812	156.398	184.196	1.00	78.12	J
ATOM	16729	CG	LYS	J	76	15.320	157.635	184.921	1.00	79.25	J
ATOM	16730	CD	LYS	J	76	16.195	157.213	186.112	1.00	81.67	J
ATOM	16731	CE	LYS	J	76	16.947	158.382	186.754	1.00	83.70	J
ATOM	16732	NZ	LYS	J	76	17.726	157.950	187.957	1.00	82.23	J
ATOM	16733	C	LYS	J	76	15.144	157.630	182.021	1.00	76.94	J
ATOM	16734	O	LYS	J	76	16.315	157.356	181.731	1.00	77.08	J
ATOM	16735	N	TYR	J	77	14.571	158.778	181.674	1.00	74.31	J
ATOM	16736	CA	TYR	J	77	15.332	159.791	180.956	1.00	74.18	J
ATOM	16737	CB	TYR	J	77	14.973	159.790	179.479	1.00	74.24	J
ATOM	16738	CG	TYR	J	77	15.811	160.748	178.661	1.00	75.74	J
ATOM	16739	CD1	TYR	J	77	17.101	160.406	178.257	1.00	77.22	J
ATOM	16740	CE1	TYR	J	77	17.877	161.279	177.499	1.00	76.95	J
ATOM	16741	CD2	TYR	J	77	15.314	161.996	178.289	1.00	75.53	J
ATOM	16742	CE2	TYR	J	77	16.081	162.881	177.529	1.00	77.94	J
ATOM	16743	CZ	TYR	J	77	17.363	162.513	177.134	1.00	79.48	J
ATOM	16744	OH	TYR	J	77	18.126	163.363	176.357	1.00	80.45	J
ATOM	16745	C	TYR	J	77	15.114	161.190	181.505	1.00	75.62	J
ATOM	16746	O	TYR	J	77	14.052	161.788	181.306	1.00	77.19	J
ATOM	16747	N	SER	J	78	16.129	161.713	182.185	1.00	75.45	J
ATOM	16748	CA	SER	J	78	16.051	163.049	182.759	1.00	78.53	J
ATOM	16749	CB	SER	J	78	16.041	164.106	181.644	1.00	80.24	J
ATOM	16750	OG	SER	J	78	16.135	165.425	182.165	1.00	78.62	J
ATOM	16751	C	SER	J	78	14.789	163.174	183.604	1.00	80.43	J
ATOM	16752	O	SER	J	78	13.924	164.012	183.339	1.00	83.54	J
ATOM	16753	N	GLY	J	79	14.683	162.332	184.623	1.00	80.41	J
ATOM	16754	CA	GLY	J	79	13.517	162.382	185.480	1.00	81.29	J
ATOM	16755	C	GLY	J	79	12.442	161.417	185.037	1.00	79.73	J
ATOM	16756	O	GLY	J	79	12.460	160.256	185.434	1.00	81.52	J
ATOM	16757	N	SER	J	80	11.512	161.893	184.211	1.00	77.71	J
ATOM	16758	CA	SER	J	80	10.420	161.049	183.726	1.00	76.08	J
ATOM	16759	CB	SER	J	80	9.574	161.786	182.672	1.00	76.75	J
ATOM	16760	OG	SER	J	80	8.752	162.786	183.257	1.00	70.14	J
ATOM	16761	C	SER	J	80	10.912	159.721	183.149	1.00	73.33	J
ATOM	16762	O	SER	J	80	12.064	159.604	182.717	1.00	71.70	J
ATOM	16763	N	SER	J	81	10.026	158.725	183.170	1.00	70.03	J
ATOM	16764	CA	SER	J	81	10.318	157.392	182.657	1.00	65.49	J
ATOM	16765	CB	SER	J	81	10.046	156.335	183.725	1.00	68.95	J
ATOM	16766	OG	SER	J	81	10.785	156.602	184.902	1.00	74.29	J
ATOM	16767	C	SER	J	81	9.408	157.154	181.470	1.00	61.68	J
ATOM	16768	O	SER	J	81	8.332	157.748	181.379	1.00	59.96	J
ATOM	16769	N	TYR	J	82	9.840	156.291	180.559	1.00	57.99	J
ATOM	16770	CA	TYR	J	82	9.055	155.998	179.374	1.00	56.74	J
ATOM	16771	CB	TYR	J	82	9.564	156.854	178.201	1.00	58.21	J

ATOM	16772	CQ	TYR	J	82	9.734	158.330	178.538	1.00	61.55	J
ATOM	16773	CD1	TYR	J	82	10.857	158.788	179.242	1.00	63.71	J
ATOM	16774	CE1	TYR	J	82	10.983	160.136	179.619	1.00	56.97	J
ATOM	16775	CD2	TYR	J	82	8.748	159.258	178.210	1.00	59.43	J
ATOM	16776	CE2	TYR	J	82	8.868	160.602	178.578	1.00	58.88	J
ATOM	16777	CZ	TYR	J	82	9.982	161.033	179.284	1.00	59.14	J
ATOM	16778	OH	TYR	J	82	10.075	162.358	179.671	1.00	61.61	J
ATOM	16779	C	TYR	J	82	9.099	154.501	179.015	1.00	56.05	J
ATOM	16780	O	TYR	J	82	10.032	153.781	179.370	1.00	54.19	J
ATOM	16781	N	PRO	J	83	8.078	154.012	178.303	1.00	53.67	J
ATOM	16782	CD	PRO	J	83	6.878	154.677	177.768	1.00	48.69	J
ATOM	16783	CA	PRO	J	83	8.093	152.595	177.946	1.00	52.02	J
ATOM	16784	CB	PRO	J	83	6.851	152.450	177.068	1.00	44.88	J
ATOM	16785	CG	PRO	J	83	5.953	153.521	177.558	1.00	47.42	J
ATOM	16786	C	PRO	J	83	9.359	152.198	177.185	1.00	53.79	J
ATOM	16787	O	PRO	J	83	9.803	152.925	176.289	1.00	54.82	J
ATOM	16788	N	PHE	J	84	9.948	151.061	177.552	1.00	52.87	J
ATOM	16789	CA	PHE	J	84	11.112	150.553	176.839	1.00	52.18	J
ATOM	16790	CB	PHE	J	84	12.392	150.622	177.656	1.00	51.43	J
ATOM	16791	CG	PHE	J	84	13.582	150.068	176.918	1.00	50.37	J
ATOM	16792	CD1	PHE	J	84	14.024	150.670	175.745	1.00	52.24	J
ATOM	16793	CD2	PHE	J	84	14.217	148.913	177.349	1.00	49.80	J
ATOM	16794	CE1	PHE	J	84	15.081	150.122	175.009	1.00	48.56	J
ATOM	16795	CE2	PHE	J	84	15.271	148.363	176.618	1.00	48.25	J
ATOM	16796	CZ	PHE	J	84	15.700	148.969	175.450	1.00	45.59	J
ATOM	16797	C	PHE	J	84	10.863	149.102	176.479	1.00	54.76	J
ATOM	16798	O	PHE	J	84	10.528	148.292	177.347	1.00	58.81	J
ATOM	16799	N	PRO	J	85	11.034	148.744	175.194	1.00	55.42	J
ATOM	16800	CD	PRO	J	85	10.889	147.358	174.719	1.00	52.22	J
ATOM	16801	CA	PRO	J	85	11.434	149.617	174.085	1.00	56.37	J
ATOM	16802	CB	PRO	J	85	11.263	148.722	172.870	1.00	50.53	J
ATOM	16803	CG	PRO	J	85	11.631	147.397	173.405	1.00	54.40	J
ATOM	16804	C	PRO	J	85	10.610	150.887	173.981	1.00	58.87	J
ATOM	16805	O	PRO	J	85	9.421	150.890	174.285	1.00	62.29	J
ATOM	16806	N	THR	J	86	11.264	151.963	173.561	1.00	61.30	J
ATOM	16807	CA	THR	J	86	10.628	153.265	173.401	1.00	60.30	J
ATOM	16808	CB	THR	J	86	11.664	154.324	173.025	1.00	58.64	J
ATOM	16809	OG1	THR	J	86	12.136	154.078	171.692	1.00	54.65	J
ATOM	16810	CG2	THR	J	86	12.836	154.268	173.990	1.00	62.26	J
ATOM	16811	C	THR	J	86	9.576	153.228	172.299	1.00	61.09	J
ATOM	16812	O	THR	J	86	9.695	152.455	171.339	1.00	62.11	J
ATOM	16813	N	THR	J	87	8.561	154.077	172.441	1.00	58.35	J
ATOM	16814	CA	THR	J	87	7.476	154.159	171.474	1.00	57.69	J
ATOM	16815	CB	THR	J	87	6.108	153.961	172.148	1.00	57.98	J
ATOM	16816	OG1	THR	J	87	5.806	155.110	172.951	1.00	60.07	J
ATOM	16817	CG2	THR	J	87	6.115	152.714	173.027	1.00	54.68	J
ATOM	16818	C	THR	J	87	7.471	155.525	170.813	1.00	57.82	J
ATOM	16819	O	THR	J	87	6.654	155.795	169.942	1.00	60.72	J
ATOM	16820	N	SER	J	88	8.377	156.394	171.235	1.00	58.58	J
ATOM	16821	CA	SER	J	88	8.450	157.729	170.663	1.00	59.35	J
ATOM	16822	CB	SER	J	88	7.162	158.494	170.944	1.00	59.06	J
ATOM	16823	OG	SER	J	88	7.030	158.699	172.333	1.00	67.24	J
ATOM	16824	C	SER	J	88	9.628	158.503	171.232	1.00	59.33	J
ATOM	16825	O	SER	J	88	10.179	158.142	172.271	1.00	52.04	J
ATOM	16826	N	GLU	J	89	10.002	159.572	170.533	1.00	64.36	J
ATOM	16827	CA	GLU	J	89	11.120	160.413	170.938	1.00	66.81	J
ATOM	16828	CB	GLU	J	89	11.427	161.447	169.865	1.00	67.74	J
ATOM	16829	CG	GLU	J	89	12.377	162.523	170.333	1.00	68.93	J

ATOM	16830	CD	GLU	J	89	12.774	163.453	169.218	1.00	71.79	J
ATOM	16831	OE1	GLU	J	89	11.861	163.999	168.555	1.00	74.28	J
ATOM	16832	OE2	GLU	J	89	13.996	163.635	169.012	1.00	68.57	J
ATOM	16833	C	GLU	J	89	10.856	161.120	172.253	1.00	69.17	J
ATOM	16834	O	GLU	J	89	9.771	161.664	172.479	1.00	71.51	J
ATOM	16835	N	THR	J	90	11.877	161.127	173.102	1.00	68.06	J
ATOM	16836	CA	THR	J	90	11.797	161.720	174.423	1.00	68.47	J
ATOM	16837	CB	THR	J	90	12.904	161.111	175.306	1.00	67.33	J
ATOM	16838	OG1	THR	J	90	12.617	161.351	176.682	1.00	72.03	J
ATOM	16839	CG2	THR	J	90	14.239	161.726	174.974	1.00	69.51	J
ATOM	16840	C	THR	J	90	11.935	163.247	174.396	1.00	68.80	J
ATOM	16841	O	THR	J	90	12.341	163.824	173.387	1.00	67.61	J
ATOM	16842	N	PRO	J	91	11.551	163.923	175.496	1.00	70.15	J
ATOM	16843	CD	PRO	J	91	10.721	163.431	176.609	1.00	69.20	J
ATOM	16844	CA	PRO	J	91	11.669	165.384	175.550	1.00	71.50	J
ATOM	16845	CB	PRO	J	91	11.107	165.721	176.925	1.00	71.55	J
ATOM	16846	CG	PRO	J	91	10.043	164.697	177.099	1.00	72.43	J
ATOM	16847	C	PRO	J	91	13.150	165.712	175.441	1.00	73.01	J
ATOM	16848	O	PRO	J	91	13.984	164.829	175.644	1.00	74.88	J
ATOM	16849	N	ARG	J	92	13.489	166.964	175.143	1.00	75.48	J
ATOM	16850	CA	ARG	J	92	14.894	167.339	174.999	1.00	78.03	J
ATOM	16851	CB	ARG	J	92	15.067	168.313	173.828	1.00	81.04	J
ATOM	16852	CG	ARG	J	92	14.343	169.645	173.979	1.00	86.91	J
ATOM	16853	CD	ARG	J	92	14.594	170.532	172.760	1.00	91.29	J
ATOM	16854	NE	ARG	J	92	13.926	171.834	172.840	1.00	96.78	J
ATOM	16855	CZ	ARG	J	92	14.160	172.748	173.781	1.00	98.98	J
ATOM	16856	NH1	ARG	J	92	15.050	172.518	174.741	1.00	99.17	J
ATOM	16857	NH2	ARG	J	92	13.505	173.901	173.758	1.00	100.71	J
ATOM	16858	C	ARG	J	92	15.550	167.927	176.243	1.00	79.04	J
ATOM	16859	O	ARG	J	92	14.925	168.649	177.015	1.00	79.67	J
ATOM	16860	N	VAL	J	93	16.824	167.596	176.420	1.00	80.15	J
ATOM	16861	CA	VAL	J	93	17.624	168.079	177.538	1.00	83.32	J
ATOM	16862	CB	VAL	J	93	18.271	166.901	178.289	1.00	85.54	J
ATOM	16863	CG1	VAL	J	93	19.164	167.423	179.411	1.00	87.89	J
ATOM	16864	CG2	VAL	J	93	17.187	165.982	178.835	1.00	82.33	J
ATOM	16865	C	VAL	J	93	18.724	168.984	176.961	1.00	85.32	J
ATOM	16866	O	VAL	J	93	19.288	168.670	175.907	1.00	86.21	J
ATOM	16867	N	VAL	J	94	19.034	170.091	177.644	1.00	85.24	J
ATOM	16868	CA	VAL	J	94	20.047	171.034	177.152	1.00	82.15	J
ATOM	16869	CB	VAL	J	94	19.746	172.498	177.593	1.00	79.16	J
ATOM	16870	CG1	VAL	J	94	18.331	172.885	177.201	1.00	74.12	J
ATOM	16871	CG2	VAL	J	94	19.963	172.661	179.089	1.00	78.56	J
ATOM	16872	C	VAL	J	94	21.485	170.727	177.545	1.00	81.98	J
ATOM	16873	O	VAL	J	94	21.760	170.235	178.640	1.00	80.97	J
ATOM	16874	N	TYR	J	95	22.398	171.030	176.627	1.00	85.04	J
ATOM	16875	CA	TYR	J	95	23.827	170.828	176.841	1.00	86.35	J
ATOM	16876	CB	TYR	J	95	24.330	169.686	175.961	1.00	85.23	J
ATOM	16877	CG	TYR	J	95	24.077	168.354	176.605	1.00	88.51	J
ATOM	16878	CD1	TYR	J	95	22.781	167.914	176.843	1.00	89.51	J
ATOM	16879	CE1	TYR	J	95	22.540	166.729	177.523	1.00	90.65	J
ATOM	16880	CD2	TYR	J	95	25.134	167.566	177.058	1.00	92.08	J
ATOM	16881	CE2	TYR	J	95	24.906	166.378	177.738	1.00	91.16	J
ATOM	16882	CZ	TYR	J	95	23.607	165.970	177.969	1.00	90.99	J
ATOM	16883	OH	TYR	J	95	23.372	164.817	178.667	1.00	90.40	J
ATOM	16884	C	TYR	J	95	24.596	172.111	176.556	1.00	85.87	J
ATOM	16885	O	TYR	J	95	24.697	172.545	175.412	1.00	85.87	J
ATOM	16886	N	ASN	J	96	25.133	172.719	177.609	1.00	86.30	J
ATOM	16887	CA	ASN	J	96	25.866	173.969	177.469	1.00	87.94	J

ATOM	16888	CB	ASN	J	96	24.928	175.140	177.796	1.00	89.95	J
ATOM	16889	CG	ASN	J	96	24.094	174.894	179.048	1.00	95.82	J
ATOM	16890	OD1	ASN	J	96	23.132	175.618	179.317	1.00	98.30	J
ATOM	16891	ND2	ASN	J	96	24.461	173.874	179.822	1.00	96.49	J
ATOM	16892	C	ASN	J	96	27.142	174.046	178.316	1.00	88.09	J
ATOM	16893	O	ASN	J	96	27.149	174.637	179.400	1.00	86.66	J
ATOM	16894	N	SER	J	97	28.216	173.448	177.800	1.00	88.31	J
ATOM	16895	CA	SER	J	97	29.521	173.429	178.464	1.00	88.62	J
ATOM	16896	CB	SER	J	97	29.372	173.075	179.946	1.00	89.47	J
ATOM	16897	OG	SER	J	97	30.641	172.931	180.561	1.00	94.78	J
ATOM	16898	C	SER	J	97	30.437	172.410	177.801	1.00	87.85	J
ATOM	16899	O	SER	J	97	29.985	171.348	177.388	1.00	87.89	J
ATOM	16900	N	ARG	J	98	31.723	172.731	177.695	1.00	88.94	J
ATOM	16901	CA	ARG	J	98	32.675	171.812	177.080	1.00	87.94	J
ATOM	16902	CB	ARG	J	98	33.941	172.549	176.639	1.00	89.85	J
ATOM	16903	CG	ARG	J	98	33.679	173.588	175.561	1.00	93.72	J
ATOM	16904	CD	ARG	J	98	34.964	174.162	174.975	1.00	95.05	J
ATOM	16905	NE	ARG	J	98	34.692	175.301	174.100	1.00	95.19	J
ATOM	16906	CZ	ARG	J	98	34.186	176.460	174.517	1.00	96.78	J
ATOM	16907	NH1	ARG	J	98	33.899	176.641	175.798	1.00	96.57	J
ATOM	16908	NH2	ARG	J	98	33.956	177.439	173.652	1.00	99.08	J
ATOM	16909	C	ARG	J	98	33.020	170.734	178.081	1.00	86.41	J
ATOM	16910	O	ARG	J	98	33.806	169.832	177.802	1.00	84.93	J
ATOM	16911	N	THR	J	99	32.419	170.842	179.260	1.00	86.91	J
ATOM	16912	CA	THR	J	99	32.627	169.863	180.313	1.00	89.48	J
ATOM	16913	CB	THR	J	99	32.300	170.458	181.702	1.00	88.60	J
ATOM	16914	OG1	THR	J	99	33.189	171.547	181.978	1.00	85.06	J
ATOM	16915	CG2	THR	J	99	32.438	169.396	182.789	1.00	88.82	J
ATOM	16916	C	THR	J	99	31.709	168.667	180.038	1.00	91.64	J
ATOM	16917	O	THR	J	99	30.479	168.781	180.057	1.00	89.27	J
ATOM	16918	N	ASP	J	100	32.320	167.520	179.773	1.00	93.20	J
ATOM	16919	CA	ASP	J	100	31.570	166.308	179.486	1.00	96.76	J
ATOM	16920	CB	ASP	J	100	32.530	165.131	179.356	1.00	97.49	J
ATOM	16921	CG	ASP	J	100	33.433	165.259	178.162	1.00	99.01	J
ATOM	16922	OD1	ASP	J	100	32.956	165.035	177.027	1.00	95.36	J
ATOM	16923	OD2	ASP	J	100	34.620	165.595	178.362	1.00	103.90	J
ATOM	16924	C	ASP	J	100	30.493	165.963	180.510	1.00	98.36	J
ATOM	16925	O	ASP	J	100	30.789	165.452	181.590	1.00	98.21	J
ATOM	16926	N	LYS	J	101	29.243	166.255	180.161	1.00	99.91	J
ATOM	16927	CA	LYS	J	101	28.102	165.939	181.016	1.00	100.19	J
ATOM	16928	CB	LYS	J	101	27.069	167.070	180.988	1.00	99.18	J
ATOM	16929	CG	LYS	J	101	25.805	166.781	181.787	1.00	100.55	J
ATOM	16930	CD	LYS	J	101	24.796	167.923	181.689	1.00	101.00	J
ATOM	16931	CE	LYS	J	101	23.600	167.693	182.609	1.00	102.05	J
ATOM	16932	NZ	LYS	J	101	22.616	168.812	182.559	1.00	100.59	J
ATOM	16933	C	LYS	J	101	27.482	164.672	180.429	1.00	100.54	J
ATOM	16934	O	LYS	J	101	27.418	164.517	179.207	1.00	102.08	J
ATOM	16935	N	PRO	J	102	27.031	163.740	181.286	1.00	99.48	J
ATOM	16936	CD	PRO	J	102	27.115	163.712	182.761	1.00	98.89	J
ATOM	16937	CA	PRO	J	102	26.424	162.504	180.779	1.00	95.98	J
ATOM	16938	CB	PRO	J	102	26.615	161.540	181.940	1.00	96.15	J
ATOM	16939	CG	PRO	J	102	26.338	162.437	183.123	1.00	97.11	J
ATOM	16940	C	PRO	J	102	24.950	162.738	180.494	1.00	91.66	J
ATOM	16941	O	PRO	J	102	24.308	163.535	181.181	1.00	89.84	J
ATOM	16942	N	TRP	J	103	24.404	162.071	179.484	1.00	88.76	J
ATOM	16943	CA	TRP	J	103	22.982	162.245	179.229	1.00	85.54	J
ATOM	16944	CB	TRP	J	103	22.645	162.096	177.732	1.00	82.57	J
ATOM	16945	CG	TRP	J	103	22.741	160.734	177.190	1.00	82.93	J

ATOM	16946	CD2	TRP	J	103	21.953	160.176	176.133	1.00	82.57	J
ATOM	16947	CE2	TRP	J	103	22.412	158.855	175.923	1.00	84.04	J
ATOM	16948	CE3	TRP	J	103	20.906	160.661	175.342	1.00	81.22	J
ATOM	16949	CD1	TRP	J	103	23.619	159.764	177.568	1.00	86.03	J
ATOM	16950	NE1	TRP	J	103	23.428	158.632	176.814	1.00	88.74	J
ATOM	16951	CZ2	TRP	J	103	21.858	158.007	174.954	1.00	80.90	J
ATOM	16952	CZ3	TRP	J	103	20.354	159.816	174.376	1.00	81.79	J
ATOM	16953	CH2	TRP	J	103	20.836	158.503	174.193	1.00	78.95	J
ATOM	16954	C	TRP	J	103	22.278	161.209	180.099	1.00	81.82	J
ATOM	16955	O	TRP	J	103	22.705	160.058	180.186	1.00	77.40	J
ATOM	16956	N	PRO	J	104	21.212	161.629	180.794	1.00	82.32	J
ATOM	16957	CD	PRO	J	104	20.595	162.957	180.610	1.00	82.99	J
ATOM	16958	CA	PRO	J	104	20.398	160.804	181.693	1.00	83.26	J
ATOM	16959	CB	PRO	J	104	19.419	161.814	182.278	1.00	82.68	J
ATOM	16960	CG	PRO	J	104	19.184	162.734	181.114	1.00	84.01	J
ATOM	16961	C	PRO	J	104	19.680	159.640	181.005	1.00	82.41	J
ATOM	16962	O	PRO	J	104	18.537	159.769	180.581	1.00	83.31	J
ATOM	16963	N	VAL	J	105	20.348	158.503	180.898	1.00	80.64	J
ATOM	16964	CA	VAL	J	105	19.736	157.358	180.260	1.00	82.58	J
ATOM	16965	CB	VAL	J	105	20.335	157.109	178.865	1.00	82.13	J
ATOM	16966	CG1	VAL	J	105	19.828	155.784	178.307	1.00	81.30	J
ATOM	16967	CG2	VAL	J	105	19.946	158.246	177.943	1.00	81.54	J
ATOM	16968	C	VAL	J	105	19.910	156.117	181.112	1.00	84.51	J
ATOM	16969	O	VAL	J	105	20.959	155.467	181.084	1.00	86.98	J
ATOM	16970	N	ALA	J	106	18.871	155.795	181.874	1.00	82.00	J
ATOM	16971	CA	ALA	J	106	18.905	154.626	182.731	1.00	77.90	J
ATOM	16972	CB	ALA	J	106	18.746	155.044	184.182	1.00	77.14	J
ATOM	16973	C	ALA	J	106	17.813	153.635	182.332	1.00	76.09	J
ATOM	16974	O	ALA	J	106	16.636	153.992	182.212	1.00	71.89	J
ATOM	16975	N	LEU	J	107	18.234	152.390	182.117	1.00	74.43	J
ATOM	16976	CA	LEU	J	107	17.351	151.297	181.740	1.00	70.93	J
ATOM	16977	CB	LEU	J	107	18.080	150.334	180.818	1.00	67.09	J
ATOM	16978	CG	LEU	J	107	17.623	150.318	179.370	1.00	66.40	J
ATOM	16979	CD1	LEU	J	107	17.667	151.726	178.817	1.00	64.60	J
ATOM	16980	CD2	LEU	J	107	18.515	149.375	178.572	1.00	64.79	J
ATOM	16981	C	LEU	J	107	16.892	150.531	182.964	1.00	71.51	J
ATOM	16982	O	LEU	J	107	17.710	150.061	183.748	1.00	70.39	J
ATOM	16983	N	TYR	J	108	15.581	150.401	183.120	1.00	74.41	J
ATOM	16984	CA	TYR	J	108	15.022	149.671	184.246	1.00	78.67	J
ATOM	16985	CB	TYR	J	108	14.165	150.602	185.103	1.00	81.84	J
ATOM	16986	CG	TYR	J	108	14.978	151.663	185.812	1.00	90.52	J
ATOM	16987	CD1	TYR	J	108	15.603	152.683	185.096	1.00	93.09	J
ATOM	16988	CE1	TYR	J	108	16.372	153.651	185.743	1.00	95.68	J
ATOM	16989	CD2	TYR	J	108	15.143	151.637	187.201	1.00	92.14	J
ATOM	16990	CE2	TYR	J	108	15.913	152.602	187.858	1.00	92.40	J
ATOM	16991	CZ	TYR	J	108	16.524	153.606	187.122	1.00	94.68	J
ATOM	16992	OH	TYR	J	108	17.278	154.575	187.752	1.00	96.15	J
ATOM	16993	C	TYR	J	108	14.207	148.477	183.753	1.00	80.17	J
ATOM	16994	O	TYR	J	108	13.069	148.622	183.308	1.00	80.03	J
ATOM	16995	N	LEU	J	109	14.810	147.294	183.839	1.00	81.41	J
ATOM	16996	CA	LEU	J	109	14.177	146.060	183.385	1.00	83.65	J
ATOM	16997	CB	LEU	J	109	15.095	145.366	182.381	1.00	77.69	J
ATOM	16998	CG	LEU	J	109	15.732	146.339	181.398	1.00	75.89	J
ATOM	16999	CD1	LEU	J	109	16.695	145.589	180.498	1.00	74.74	J
ATOM	17000	CD2	LEU	J	109	14.650	147.044	180.593	1.00	73.55	J
ATOM	17001	C	LEU	J	109	13.848	145.092	184.523	1.00	85.78	J
ATOM	17002	O	LEU	J	109	14.668	144.853	185.407	1.00	86.44	J
ATOM	17003	N	THR	J	110	12.644	144.536	184.491	1.00	88.58	J

ATOM	17004	CA	THR	J	110	12.224	143.584	185.510	1.00	91.31	J
ATOM	17005	CB	THR	J	110	10.886	143.990	186.139	1.00	89.48	J
ATOM	17006	OG1	THR	J	110	10.972	145.343	186.599	1.00	90.20	J
ATOM	17007	CG2	THR	J	110	10.554	143.082	187.318	1.00	89.60	J
ATOM	17008	C	THR	J	110	12.059	142.223	184.854	1.00	93.83	J
ATOM	17009	O	THR	J	110	11.610	142.135	183.709	1.00	95.80	J
ATOM	17010	N	PRO	J	111	12.439	141.141	185.561	1.00	94.36	J
ATOM	17011	CD	PRO	J	111	13.280	141.085	186.768	1.00	93.48	J
ATOM	17012	CA	PRO	J	111	12.297	139.805	184.970	1.00	93.11	J
ATOM	17013	CB	PRO	J	111	13.266	138.950	185.792	1.00	92.04	J
ATOM	17014	CG	PRO	J	111	14.212	139.960	186.426	1.00	91.56	J
ATOM	17015	C	PRO	J	111	10.853	139.306	185.075	1.00	92.37	J
ATOM	17016	O	PRO	J	111	10.181	139.507	186.096	1.00	90.61	J
ATOM	17017	N	VAL	J	112	10.379	138.670	184.009	1.00	92.26	J
ATOM	17018	CA	VAL	J	112	9.024	138.130	183.980	1.00	89.99	J
ATOM	17019	CB	VAL	J	112	8.469	138.072	182.544	1.00	85.41	J
ATOM	17020	CG1	VAL	J	112	8.224	139.471	182.026	1.00	80.95	J
ATOM	17021	CG2	VAL	J	112	9.449	137.335	181.638	1.00	82.43	J
ATOM	17022	C	VAL	J	112	9.045	136.716	184.538	1.00	91.64	J
ATOM	17023	O	VAL	J	112	10.019	135.981	184.350	1.00	94.00	J
ATOM	17024	N	SER	J	113	7.976	136.339	185.231	1.00	91.82	J
ATOM	17025	CA	SER	J	113	7.866	135.000	185.806	1.00	92.63	J
ATOM	17026	CB	SER	J	113	6.398	134.709	186.138	1.00	92.71	J
ATOM	17027	OG	SER	J	113	6.234	133.406	186.659	1.00	95.58	J
ATOM	17028	C	SER	J	113	8.408	133.943	184.833	1.00	91.81	J
ATOM	17029	O	SER	J	113	8.990	132.945	185.247	1.00	89.56	J
ATOM	17030	N	SER	J	114	8.227	134.199	183.539	1.00	92.83	J
ATOM	17031	CA	SER	J	114	8.662	133.312	182.463	1.00	94.81	J
ATOM	17032	CB	SER	J	114	8.276	133.920	181.110	1.00	92.41	J
ATOM	17033	OG	SER	J	114	8.742	133.130	180.033	1.00	90.09	J
ATOM	17034	C	SER	J	114	10.150	132.980	182.450	1.00	98.54	J
ATOM	17035	O	SER	J	114	10.540	131.880	182.060	1.00	98.71	J
ATOM	17036	N	ALA	J	115	10.983	133.931	182.855	1.00	104.07	J
ATOM	17037	CA	ALA	J	115	12.425	133.706	182.878	1.00	110.50	J
ATOM	17038	CB	ALA	J	115	13.137	134.940	183.417	1.00	110.37	J
ATOM	17039	C	ALA	J	115	12.750	132.482	183.743	1.00	115.13	J
ATOM	17040	O	ALA	J	115	11.849	131.883	184.340	1.00	116.79	J
ATOM	17041	N	GLY	J	116	14.029	132.108	183.809	1.00	117.50	J
ATOM	17042	CA	GLY	J	116	14.420	130.951	184.605	1.00	117.66	J
ATOM	17043	C	GLY	J	116	15.856	130.941	185.109	1.00	117.84	J
ATOM	17044	O	GLY	J	116	16.097	130.859	186.315	1.00	116.67	J
ATOM	17045	N	GLY	J	117	16.811	131.008	184.185	1.00	118.50	J
ATOM	17046	CA	GLY	J	117	18.213	131.007	184.562	1.00	118.63	J
ATOM	17047	C	GLY	J	117	18.996	132.075	183.822	1.00	118.45	J
ATOM	17048	O	GLY	J	117	18.961	133.246	184.195	1.00	117.22	J
ATOM	17049	N	VAL	J	118	19.702	131.670	182.770	1.00	119.25	J
ATOM	17050	CA	VAL	J	118	20.495	132.600	181.974	1.00	119.88	J
ATOM	17051	CB	VAL	J	118	21.462	131.852	181.024	1.00	120.61	J
ATOM	17052	CG1	VAL	J	118	22.234	132.848	180.171	1.00	121.11	J
ATOM	17053	CG2	VAL	J	118	22.422	130.998	181.828	1.00	120.67	J
ATOM	17054	C	VAL	J	118	19.593	133.494	181.131	1.00	120.32	J
ATOM	17055	O	VAL	J	118	19.216	133.133	180.014	1.00	121.87	J
ATOM	17056	N	ALA	J	119	19.247	134.660	181.669	1.00	119.29	J
ATOM	17057	CA	ALA	J	119	18.399	135.610	180.957	1.00	117.13	J
ATOM	17058	CB	ALA	J	119	17.827	136.637	181.932	1.00	114.88	J
ATOM	17059	C	ALA	J	119	19.225	136.309	179.878	1.00	116.15	J
ATOM	17060	O	ALA	J	119	18.805	136.405	178.724	1.00	115.73	J
ATOM	17061	N	ILE	J	120	20.408	136.782	180.262	1.00	115.55	J

ATOM	17062	CA	ILE	J	120	21.307	137.474	179.342	1.00113.60	J
ATOM	17063	CB	ILE	J	120	21.540	138.941	179.784	1.00111.21	J
ATOM	17064	CG2	ILE	J	120	22.546	139.611	178.865	1.00110.31	J
ATOM	17065	CG1	ILE	J	120	20.218	139.707	179.769	1.00106.92	J
ATOM	17066	CD1	ILE	J	120	20.353	141.154	180.174	1.00108.28	J
ATOM	17067	C	ILE	J	120	22.659	136.775	179.276	1.00112.15	J
ATOM	17068	O	ILE	J	120	23.174	136.312	180.292	1.00111.47	J
ATOM	17069	N	LYS	J	121	23.229	136.704	178.078	1.00111.43	J
ATOM	17070	CA	LYS	J	121	24.530	136.073	177.890	1.00112.44	J
ATOM	17071	CB	LYS	J	121	24.745	135.742	176.407	1.00112.53	J
ATOM	17072	CG	LYS	J	121	24.319	134.322	176.021	1.00113.28	J
ATOM	17073	CD	LYS	J	121	22.894	133.994	176.474	1.00113.85	J
ATOM	17074	CE	LYS	J	121	22.594	132.489	176.416	1.00112.35	J
ATOM	17075	NZ	LYS	J	121	22.669	131.909	175.043	1.00110.61	J
ATOM	17076	C	LYS	J	121	25.650	136.971	178.410	1.00112.37	J
ATOM	17077	O	LYS	J	121	25.387	138.005	179.021	1.00112.55	J
ATOM	17078	N	ALA	J	122	26.896	136.577	178.171	1.00111.57	J
ATOM	17079	CA	ALA	J	122	28.034	137.355	178.645	1.00111.74	J
ATOM	17080	CB	ALA	J	122	29.020	136.442	179.365	1.00111.57	J
ATOM	17081	C	ALA	J	122	28.744	138.107	177.526	1.00112.31	J
ATOM	17082	O	ALA	J	122	29.895	138.519	177.679	1.00112.31	J
ATOM	17083	N	GLY	J	123	28.057	138.293	176.404	1.00112.56	J
ATOM	17084	CA	GLY	J	123	28.660	139.001	175.289	1.00113.12	J
ATOM	17085	C	GLY	J	123	27.697	139.208	174.137	1.00113.20	J
ATOM	17086	O	GLY	J	123	28.071	139.097	172.962	1.00113.47	J
ATOM	17087	N	SER	J	124	26.448	139.512	174.480	1.00112.27	J
ATOM	17088	CA	SER	J	124	25.406	139.740	173.487	1.00108.67	J
ATOM	17089	CB	SER	J	124	24.202	138.828	173.764	1.00108.89	J
ATOM	17090	OG	SER	J	124	23.714	138.997	175.086	1.00108.41	J
ATOM	17091	C	SER	J	124	24.961	141.194	173.504	1.00104.03	J
ATOM	17092	O	SER	J	124	25.467	141.999	174.289	1.00101.94	J
ATOM	17093	N	LEU	J	125	24.020	141.518	172.623	1.00100.95	J
ATOM	17094	CA	LEU	J	125	23.475	142.864	172.528	1.00 97.85	J
ATOM	17095	CB	LEU	J	125	23.088	143.178	171.081	1.00 95.72	J
ATOM	17096	CG	LEU	J	125	22.497	144.562	170.806	1.00 96.22	J
ATOM	17097	CD1	LEU	J	125	23.476	145.660	171.214	1.00 94.98	J
ATOM	17098	CD2	LEU	J	125	22.177	144.662	169.333	1.00 94.27	J
ATOM	17099	C	LEU	J	125	22.248	142.975	173.427	1.00 95.19	J
ATOM	17100	O	LEU	J	125	21.369	142.112	173.405	1.00 96.00	J
ATOM	17101	N	ILE	J	126	22.207	144.028	174.235	1.00 92.00	J
ATOM	17102	CA	ILE	J	126	21.083	144.260	175.130	1.00 90.52	J
ATOM	17103	CB	ILE	J	126	21.501	145.020	176.400	1.00 88.88	J
ATOM	17104	CG2	ILE	J	126	20.282	145.308	177.247	1.00 89.55	J
ATOM	17105	CG1	ILE	J	126	22.500	144.215	177.216	1.00 88.70	J
ATOM	17106	CD1	ILE	J	126	22.911	144.932	178.495	1.00 88.76	J
ATOM	17107	C	ILE	J	126	20.065	145.140	174.418	1.00 88.91	J
ATOM	17108	O	ILE	J	126	18.926	144.741	174.174	1.00 89.09	J
ATOM	17109	N	ALA	J	127	20.507	146.346	174.083	1.00 86.28	J
ATOM	17110	CA	ALA	J	127	19.657	147.323	173.436	1.00 83.98	J
ATOM	17111	CB	ALA	J	127	19.083	148.262	174.493	1.00 86.03	J
ATOM	17112	C	ALA	J	127	20.400	148.125	172.380	1.00 81.99	J
ATOM	17113	O	ALA	J	127	21.559	147.853	172.071	1.00 83.72	J
ATOM	17114	N	VAL	J	128	19.707	149.117	171.833	1.00 78.25	J
ATOM	17115	CA	VAL	J	128	20.258	150.002	170.823	1.00 73.91	J
ATOM	17116	CB	VAL	J	128	19.959	149.476	169.411	1.00 72.63	J
ATOM	17117	CG1	VAL	J	128	20.372	150.495	168.372	1.00 71.65	J
ATOM	17118	CG2	VAL	J	128	20.708	148.179	169.181	1.00 70.70	J
ATOM	17119	C	VAL	J	128	19.620	151.372	171.013	1.00 73.92	J

ATOM	17120	O	VAL	J	128	18.659	151.720	170.326	1.00	76.77	J
ATOM	17121	N	LEU	J	129	20.157	152.135	171.966	1.00	72.06	J
ATOM	17122	CA	LEU	J	129	19.666	153.478	172.293	1.00	70.96	J
ATOM	17123	CB	LEU	J	129	20.126	153.881	173.695	1.00	66.49	J
ATOM	17124	CG	LEU	J	129	19.889	152.878	174.817	1.00	65.89	J
ATOM	17125	CD1	LEU	J	129	20.446	153.425	176.115	1.00	58.53	J
ATOM	17126	CD2	LEU	J	129	18.400	152.590	174.931	1.00	62.76	J
ATOM	17127	C	LEU	J	129	20.170	154.524	171.306	1.00	71.57	J
ATOM	17128	O	LEU	J	129	21.376	154.661	171.112	1.00	72.19	J
ATOM	17129	N	ILE	J	130	19.259	155.276	170.697	1.00	71.17	J
ATOM	17130	CA	ILE	J	130	19.675	156.298	169.744	1.00	71.68	J
ATOM	17131	CB	ILE	J	130	18.840	156.261	168.450	1.00	69.18	J
ATOM	17132	CG2	ILE	J	130	19.221	157.437	167.569	1.00	71.03	J
ATOM	17133	CG1	ILE	J	130	19.080	154.953	167.694	1.00	67.80	J
ATOM	17134	CD1	ILE	J	130	18.396	154.902	166.333	1.00	63.38	J
ATOM	17135	C	ILE	J	130	19.602	157.712	170.305	1.00	74.03	J
ATOM	17136	O	ILE	J	130	18.535	158.182	170.716	1.00	73.84	J
ATOM	17137	N	LEU	J	131	20.746	158.389	170.310	1.00	75.66	J
ATOM	17138	CA	LEU	J	131	20.825	159.758	170.798	-1.00	76.85	J
ATOM	17139	CB	LEU	J	131	22.199	160.020	171.423	1.00	77.54	J
ATOM	17140	CG	LEU	J	131	22.411	161.379	172.105	1.00	79.55	J
ATOM	17141	CD1	LEU	J	131	23.654	161.302	172.971	1.00	76.94	J
ATOM	17142	CD2	LEU	J	131	22.532	162.505	171.071	1.00	79.64	J
ATOM	17143	C	LEU	J	131	20.598	160.707	169.632	1.00	78.10	J
ATOM	17144	O	LEU	J	131	21.274	160.620	168.612	1.00	78.24	J
ATOM	17145	N	ARG	J	132	19.641	161.612	169.789	1.00	80.79	J
ATOM	17146	CA	ARG	J	132	19.318	162.590	168.755	1.00	81.61	J
ATOM	17147	CB	ARG	J	132	17.807	162.683	168.585	1.00	84.43	J
ATOM	17148	CG	ARG	J	132	17.340	163.808	167.684	1.00	85.06	J
ATOM	17149	CD	ARG	J	132	16.966	163.299	166.311	1.00	87.92	J
ATOM	17150	NE	ARG	J	132	15.895	164.103	165.731	1.00	89.28	J
ATOM	17151	CZ	ARG	J	132	15.405	163.936	164.507	1.00	94.06	J
ATOM	17152	NH1	ARG	J	132	15.887	162.987	163.706	1.00	93.78	J
ATOM	17153	NH2	ARG	J	132	14.422	164.722	164.088	1.00	96.11	J
ATOM	17154	C	ARG	J	132	19.855	163.939	169.192	1.00	81.44	J
ATOM	17155	O	ARG	J	132	19.556	164.398	170.297	1.00	81.07	J
ATOM	17156	N	GLN	J	133	20.631	164.581	168.324	1.00	80.86	J
ATOM	17157	CA	GLN	J	133	21.211	165.875	168.658	1.00	79.32	J
ATOM	17158	CB	GLN	J	133	22.732	165.741	168.798	1.00	80.51	J
ATOM	17159	CG	GLN	J	133	23.420	166.976	169.361	1.00	84.37	J
ATOM	17160	CD	GLN	J	133	24.277	167.698	168.338	1.00	87.52	J
ATOM	17161	OE1	GLN	J	133	25.187	167.112	167.748	1.00	92.05	J
ATOM	17162	NE2	GLN	J	133	23.995	168.981	168.129	1.00	85.55	J
ATOM	17163	C	GLN	J	133	20.882	166.988	167.666	1.00	77.78	J
ATOM	17164	O	GLN	J	133	20.995	166.816	166.444	1.00	77.65	J
ATOM	17165	N	THR	J	134	20.466	168.126	168.219	1.00	74.54	J
ATOM	17166	CA	THR	J	134	20.132	169.319	167.447	1.00	71.98	J
ATOM	17167	CB	THR	J	134	18.620	169.472	167.236	1.00	69.54	J
ATOM	17168	OG1	THR	J	134	17.971	169.629	168.505	1.00	69.77	J
ATOM	17169	CG2	THR	J	134	18.065	168.270	166.502	1.00	63.73	J
ATOM	17170	C	THR	J	134	20.612	170.506	168.264	1.00	73.21	J
ATOM	17171	O	THR	J	134	21.351	170.323	169.229	1.00	73.97	J
ATOM	17172	N	ASN	J	135	20.197	171.712	167.880	1.00	74.89	J
ATOM	17173	CA	ASN	J	135	20.588	172.930	168.589	1.00	78.18	J
ATOM	17174	CB	ASN	J	135	22.084	173.206	168.426	1.00	79.37	J
ATOM	17175	CG	ASN	J	135	22.493	173.371	166.976	1.00	79.96	J
ATOM	17176	OD1	ASN	J	135	21.875	174.133	166.227	1.00	82.01	J
ATOM	17177	ND2	ASN	J	135	23.546	172.665	166.573	1.00	75.63	J

ATOM	17178	C	ASN	J	135	19.808	174.125	168.076	1.00	81.61	J
ATOM	17179	O	ASN	J	135	19.132	174.038	167.048	1.00	82.50	J
ATOM	17180	N	ASN	J	136	19.916	175.245	168.787	1.00	84.02	J
ATOM	17181	CA	ASN	J	136	19.201	176.461	168.409	1.00	87.22	J
ATOM	17182	CB	ASN	J	136	18.750	177.225	169.667	1.00	82.62	J
ATOM	17183	CG	ASN	J	136	19.918	177.732	170.512	1.00	78.46	J
ATOM	17184	OD1	ASN	J	136	19.719	178.453	171.495	1.00	72.74	J
ATOM	17185	ND2	ASN	J	136	21.137	177.357	170.134	1.00	74.58	J
ATOM	17186	C	ASN	J	136	20.021	177.388	167.518	1.00	92.13	J
ATOM	17187	O	ASN	J	136	19.856	178.606	167.569	1.00	94.01	J
ATOM	17188	N	TYR	J	137	20.885	176.816	166.684	1.00	97.26	J
ATOM	17189	CA	TYR	J	137	21.740	177.625	165.820	1.00	100.55	J
ATOM	17190	CB	TYR	J	137	23.211	177.384	166.191	1.00	105.04	J
ATOM	17191	CG	TYR	J	137	24.188	178.358	165.575	1.00	108.05	J
ATOM	17192	CD1	TYR	J	137	24.031	179.735	165.742	1.00	109.97	J
ATOM	17193	CE1	TYR	J	137	24.938	180.638	165.190	1.00	111.21	J
ATOM	17194	CD2	TYR	J	137	25.280	177.904	164.837	1.00	109.89	J
ATOM	17195	CE2	TYR	J	137	26.194	178.797	164.280	1.00	113.13	J
ATOM	17196	CZ	TYR	J	137	26.017	180.163	164.460	1.00	113.19	J
ATOM	17197	OH	TYR	J	137	26.910	181.048	163.896	1.00	114.59	J
ATOM	17198	C	TYR	J	137	21.530	177.384	164.329	1.00	99.78	J
ATOM	17199	O	TYR	J	137	21.356	178.332	163.567	1.00	98.30	J
ATOM	17200	N	ASN	J	138	21.546	176.123	163.910	1.00	100.62	J
ATOM	17201	CA	ASN	J	138	21.364	175.808	162.498	1.00	103.32	J
ATOM	17202	CB	ASN	J	138	22.719	175.717	161.801	1.00	105.64	J
ATOM	17203	CG	ASN	J	138	23.656	174.755	162.489	1.00	109.37	J
ATOM	17204	OD1	ASN	J	138	24.210	175.059	163.547	1.00	111.90	J
ATOM	17205	ND2	ASN	J	138	23.831	173.576	161.901	1.00	110.56	J
ATOM	17206	C	ASN	J	138	20.591	174.518	162.262	1.00	104.29	J
ATOM	17207	O	ASN	J	138	19.972	173.976	163.176	1.00	105.48	J
ATOM	17208	N	SER	J	139	20.645	174.035	161.022	1.00	104.32	J
ATOM	17209	CA	SER	J	139	19.950	172.818	160.605	1.00	103.82	J
ATOM	17210	CB	SER	J	139	19.850	172.786	159.076	1.00	104.39	J
ATOM	17211	OG	SER	J	139	21.129	172.940	158.476	1.00	104.73	J
ATOM	17212	C	SER	J	139	20.586	171.518	161.097	1.00	102.64	J
ATOM	17213	O	SER	J	139	20.319	170.446	160.542	1.00	101.68	J
ATOM	17214	N	ASP	J	140	21.413	171.609	162.137	1.00	101.46	J
ATOM	17215	CA	ASP	J	140	22.083	170.431	162.687	1.00	101.50	J
ATOM	17216	CB	ASP	J	140	23.229	170.857	163.610	1.00	104.09	J
ATOM	17217	CG	ASP	J	140	24.585	170.789	162.923	1.00	107.00	J
ATOM	17218	OD1	ASP	J	140	25.602	171.145	163.554	1.00	106.55	J
ATOM	17219	OD2	ASP	J	140	24.634	170.372	161.745	1.00	109.97	J
ATOM	17220	C	ASP	J	140	21.162	169.446	163.415	1.00	99.24	J
ATOM	17221	O	ASP	J	140	20.513	169.784	164.407	1.00	97.62	J
ATOM	17222	N	ASP	J	141	21.135	168.217	162.907	1.00	96.88	J
ATOM	17223	CA	ASP	J	141	20.307	167.150	163.455	1.00	94.39	J
ATOM	17224	CB	ASP	J	141	18.963	167.134	162.721	1.00	92.48	J
ATOM	17225	CG	ASP	J	141	17.971	166.166	163.324	1.00	88.79	J
ATOM	17226	OD1	ASP	J	141	18.276	164.957	163.416	1.00	84.95	J
ATOM	17227	OD2	ASP	J	141	16.875	166.623	163.699	1.00	89.21	J
ATOM	17228	C	ASP	J	141	21.043	165.830	163.228	1.00	94.21	J
ATOM	17229	O	ASP	J	141	21.032	165.286	162.119	1.00	94.17	J
ATOM	17230	N	PHE	J	142	21.677	165.312	164.275	1.00	92.56	J
ATOM	17231	CA	PHE	J	142	22.423	164.069	164.144	1.00	93.01	J
ATOM	17232	CB	PHE	J	142	23.898	164.341	164.422	1.00	94.91	J
ATOM	17233	CG	PHE	J	142	24.475	165.436	163.576	1.00	96.45	J
ATOM	17234	CD1	PHE	J	142	24.822	166.657	164.140	1.00	95.85	J
ATOM	17235	CD2	PHE	J	142	24.666	165.249	162.207	1.00	96.33	J

ATOM	17236	CE1	PHE	J	142	25.356	167.678	163.352	1.00	97.65	J
ATOM	17237	CE2	PHE	J	142	25.197	166.258	161.412	1.00	95.73	J
ATOM	17238	CZ	PHE	J	142	25.544	167.476	161.984	1.00	96.96	J
ATOM	17239	C	PHE	J	142	21.921	162.947	165.044	1.00	93.49	J
ATOM	17240	O	PHE	J	142	21.162	163.186	165.982	1.00	94.40	J
ATOM	17241	N	GLN	J	143	22.354	161.720	164.753	1.00	93.68	J
ATOM	17242	CA	GLN	J	143	21.947	160.556	165.535	1.00	92.90	J
ATOM	17243	CB	GLN	J	143	21.125	159.593	164.676	1.00	94.02	J
ATOM	17244	CG	GLN	J	143	19.932	160.231	163.978	1.00	101.97	J
ATOM	17245	CD	GLN	J	143	18.906	159.206	163.499	1.00	104.54	J
ATOM	17246	OE1	GLN	J	143	19.261	158.165	162.936	1.00	104.41	J
ATOM	17247	NE2	GLN	J	143	17.623	159.505	163.715	1.00	103.23	J
ATOM	17248	C	GLN	J	143	23.107	159.783	166.158	1.00	91.86	J
ATOM	17249	O	GLN	J	143	23.532	158.760	165.622	1.00	90.78	J
ATOM	17250	N	PHE	J	144	23.614	160.275	167.287	1.00	91.53	J
ATOM	17251	CA	PHE	J	144	24.703	159.610	168.007	1.00	90.41	J
ATOM	17252	CB	PHE	J	144	25.108	160.419	169.247	1.00	88.24	J
ATOM	17253	CG	PHE	J	144	25.816	161.713	168.939	1.00	89.00	J
ATOM	17254	CD1	PHE	J	144	25.201	162.699	168.170	1.00	87.18	J
ATOM	17255	CD2	PHE	J	144	27.106	161.948	169.425	1.00	85.69	J
ATOM	17256	CE1	PHE	J	144	25.860	163.895	167.889	1.00	83.15	J
ATOM	17257	CE2	PHE	J	144	27.767	163.136	169.148	1.00	80.56	J
ATOM	17258	CZ	PHE	J	144	27.143	164.110	168.378	1.00	81.66	J
ATOM	17259	C	PHE	J	144	24.198	158.238	168.458	1.00	90.94	J
ATOM	17260	O	PHE	J	144	23.514	158.129	169.478	1.00	91.88	J
ATOM	17261	N	VAL	J	145	24.542	157.196	167.706	1.00	89.66	J
ATOM	17262	CA	VAL	J	145	24.105	155.836	168.018	1.00	87.86	J
ATOM	17263	CB	VAL	J	145	24.112	154.971	166.760	1.00	83.98	J
ATOM	17264	CG1	VAL	J	145	23.320	153.704	167.001	1.00	81.79	J
ATOM	17265	CG2	VAL	J	145	23.546	155.760	165.600	1.00	86.20	J
ATOM	17266	C	VAL	J	145	24.929	155.116	169.088	1.00	89.98	J
ATOM	17267	O	VAL	J	145	26.090	155.447	169.332	1.00	91.08	J
ATOM	17268	N	TRP	J	146	24.315	154.125	169.725	1.00	91.25	J
ATOM	17269	CA	TRP	J	146	24.984	153.350	170.761	1.00	92.90	J
ATOM	17270	CB	TRP	J	146	24.746	153.961	172.146	1.00	93.22	J
ATOM	17271	CG	TRP	J	146	24.996	155.440	172.240	1.00	94.20	J
ATOM	17272	CD2	TRP	J	146	26.215	156.083	172.630	1.00	94.26	J
ATOM	17273	CE2	TRP	J	146	25.992	157.475	172.565	1.00	95.55	J
ATOM	17274	CE3	TRP	J	146	27.476	155.618	173.028	1.00	92.26	J
ATOM	17275	CD1	TRP	J	146	24.108	156.442	171.963	1.00	95.19	J
ATOM	17276	NE1	TRP	J	146	24.698	157.666	172.158	1.00	95.52	J
ATOM	17277	CZ2	TRP	J	146	26.985	158.409	172.884	1.00	95.63	J
ATOM	17278	CZ3	TRP	J	146	28.462	156.548	173.346	1.00	92.83	J
ATOM	17279	CH2	TRP	J	146	28.209	157.927	173.270	1.00	93.35	J
ATOM	17280	C	TRP	J	146	24.474	151.914	170.770	1.00	94.85	J
ATOM	17281	O	TRP	J	146	23.308	151.655	170.467	1.00	96.12	J
ATOM	17282	N	ASN	J	147	25.355	150.983	171.120	1.00	95.70	J
ATOM	17283	CA	ASN	J	147	25.002	149.570	171.189	1.00	95.22	J
ATOM	17284	CB	ASN	J	147	25.663	148.793	170.051	1.00	95.06	J
ATOM	17285	CG	ASN	J	147	25.201	149.265	168.689	1.00	99.25	J
ATOM	17286	OD1	ASN	J	147	24.002	149.364	168.432	1.00	102.24	J
ATOM	17287	ND2	ASN	J	147	26.149	149.560	167.806	1.00	100.71	J
ATOM	17288	C	ASN	J	147	25.448	149.018	172.528	1.00	93.77	J
ATOM	17289	O	ASN	J	147	26.639	148.919	172.810	1.00	94.34	J
ATOM	17290	N	ILE	J	148	24.477	148.665	173.356	1.00	92.65	J
ATOM	17291	CA	ILE	J	148	24.762	148.136	174.675	1.00	93.72	J
ATOM	17292	CB	ILE	J	148	23.628	148.484	175.645	1.00	93.83	J
ATOM	17293	CG2	ILE	J	148	23.982	148.016	177.051	1.00	95.31	J

ATOM	17294	CG1	ILE	J	148	23.358	149.994	175.604	1.00	94.99	J
ATOM	17295	CD1	ILE	J	148	24.520	150.866	176.061	1.00	95.25	J
ATOM	17296	C	ILE	J	148	24.941	146.621	174.658	1.00	96.11	J
ATOM	17297	O	ILE	J	148	24.099	145.901	174.121	1.00	97.18	J
ATOM	17298	N	TYR	J	149	26.046	146.154	175.244	1.00	97.10	J
ATOM	17299	CA	TYR	J	149	26.369	144.725	175.339	1.00	95.84	J
ATOM	17300	CB	TYR	J	149	27.590	144.368	174.479	1.00	91.30	J
ATOM	17301	CG	TYR	J	149	27.377	144.435	172.982	1.00	87.77	J
ATOM	17302	CD1	TYR	J	149	27.268	145.657	172.323	1.00	87.38	J
ATOM	17303	CE1	TYR	J	149	27.113	145.717	170.936	1.00	88.28	J
ATOM	17304	CD2	TYR	J	149	27.319	143.273	172.220	1.00	88.37	J
ATOM	17305	CE2	TYR	J	149	27.163	143.322	170.833	1.00	87.79	J
ATOM	17306	CZ	TYR	J	149	27.063	144.545	170.197	1.00	86.69	J
ATOM	17307	OH	TYR	J	149	26.933	144.591	168.826	1.00	84.22	J
ATOM	17308	C	TYR	J	149	26.682	144.369	176.791	1.00	97.75	J
ATOM	17309	O	TYR	J	149	27.157	145.210	177.552	1.00	97.98	J
ATOM	17310	N	ALA	J	150	26.414	143.125	177.173	1.00	101.53	J
ATOM	17311	CA	ALA	J	150	26.690	142.673	178.535	1.00	106.16	J
ATOM	17312	CB	ALA	J	150	25.423	142.081	179.167	1.00	102.77	J
ATOM	17313	C	ALA	J	150	27.811	141.630	178.505	1.00	109.35	J
ATOM	17314	O	ALA	J	150	27.652	140.552	177.927	1.00	110.53	J
ATOM	17315	N	ASN	J	151	28.945	141.958	179.119	1.00	110.80	J
ATOM	17316	CA	ASN	J	151	30.083	141.044	179.145	1.00	112.18	J
ATOM	17317	CB	ASN	J	151	31.366	141.793	179.519	1.00	113.13	J
ATOM	17318	CG	ASN	J	151	31.759	142.838	178.495	1.00	114.18	J
ATOM	17319	OD1	ASN	J	151	31.946	142.535	177.315	1.00	114.82	J
ATOM	17320	ND2	ASN	J	151	31.897	144.079	178.945	1.00	112.53	J
ATOM	17321	C	ASN	J	151	29.884	139.887	180.122	1.00	112.93	J
ATOM	17322	O	ASN	J	151	30.733	139.000	180.220	1.00	113.10	J
ATOM	17323	N	ASN	J	152	28.763	139.893	180.838	1.00	112.93	J
ATOM	17324	CA	ASN	J	152	28.482	138.845	181.814	1.00	112.33	J
ATOM	17325	CB	ASN	J	152	28.637	139.405	183.226	1.00	110.35	J
ATOM	17326	CG	ASN	J	152	27.692	140.555	183.499	1.00	109.70	J
ATOM	17327	OD1	ASN	J	152	27.697	141.560	182.786	1.00	108.80	J
ATOM	17328	ND2	ASN	J	152	26.874	140.414	184.535	1.00	108.82	J
ATOM	17329	C	ASN	J	152	27.084	138.259	181.656	1.00	113.02	J
ATOM	17330	O	ASN	J	152	26.146	138.962	181.293	1.00	113.67	J
ATOM	17331	N	ASP	J	153	26.952	136.967	181.933	1.00	114.27	J
ATOM	17332	CA	ASP	J	153	25.665	136.289	181.833	1.00	115.64	J
ATOM	17333	CB	ASP	J	153	25.838	134.767	181.862	1.00	116.95	J
ATOM	17334	CG	ASP	J	153	26.793	134.255	180.803	1.00	119.02	J
ATOM	17335	OD1	ASP	J	153	26.572	134.528	179.604	1.00	119.70	J
ATOM	17336	OD2	ASP	J	153	27.765	133.564	181.178	1.00	120.45	J
ATOM	17337	C	ASP	J	153	24.796	136.670	183.022	1.00	116.73	J
ATOM	17338	O	ASP	J	153	25.190	136.454	184.167	1.00	116.51	J
ATOM	17339	N	VAL	J	154	23.624	137.241	182.772	1.00	118.16	J
ATOM	17340	CA	VAL	J	154	22.745	137.573	183.886	1.00	119.57	J
ATOM	17341	CB	VAL	J	154	21.747	138.702	183.552	1.00	119.00	J
ATOM	17342	CG1	VAL	J	154	20.920	139.049	184.793	1.00	114.43	J
ATOM	17343	CG2	VAL	J	154	22.494	139.927	183.060	1.00	120.98	J
ATOM	17344	C	VAL	J	154	21.968	136.295	184.164	1.00	120.43	J
ATOM	17345	O	VAL	J	154	21.879	135.414	183.304	1.00	119.14	J
ATOM	17346	N	VAL	J	155	21.420	136.185	185.366	1.00	121.91	J
ATOM	17347	CA	VAL	J	155	20.668	135.000	185.736	1.00	123.72	J
ATOM	17348	CB	VAL	J	155	21.546	134.008	186.535	1.00	124.64	J
ATOM	17349	CG1	VAL	J	155	20.738	132.776	186.906	1.00	125.86	J
ATOM	17350	CG2	VAL	J	155	22.760	133.608	185.715	1.00	124.35	J
ATOM	17351	C	VAL	J	155	19.465	135.379	186.579	1.00	124.95	J

ATOM	17352	O	VAL J 155	19.484	136.381	187.290	1.00124.22	J
ATOM	17353	N	VAL J 156	18.416	134.571	186.481	1.00127.12	J
ATOM	17354	CA	VAL J 156	17.192	134.789	187.237	1.00130.37	J
ATOM	17355	CB	VAL J 156	16.068	135.328	186.336	1.00130.42	J
ATOM	17356	CG1	VAL J 156	14.869	135.702	187.183	1.00128.28	J
ATOM	17357	CG2	VAL J 156	16.564	136.533	185.545	1.00131.49	J
ATOM	17358	C	VAL J 156	16.776	133.440	187.809	1.00132.83	J
ATOM	17359	O	VAL J 156	15.719	132.907	187.475	1.00133.60	J
ATOM	17360	N	PRO J 157	17.611	132.881	188.700	1.00134.48	J
ATOM	17361	CD	PRO J 157	18.659	133.658	189.390	1.00135.99	J
ATOM	17362	CA	PRO J 157	17.418	131.592	189.368	1.00134.75	J
ATOM	17363	CB	PRO J 157	17.996	131.846	190.753	1.00135.35	J
ATOM	17364	CG	PRO J 157	19.192	132.668	190.423	1.00136.61	J
ATOM	17365	C	PRO J 157	16.001	131.031	189.412	1.00133.91	J
ATOM	17366	O	PRO J 157	15.030	131.750	189.665	1.00133.22	J
ATOM	17367	N	THR J 158	15.909	129.730	189.150	1.00133.14	J
ATOM	17368	CA	THR J 158	14.650	129.004	189.160	1.00132.01	J
ATOM	17369	CB	THR J 158	14.811	127.641	188.457	1.00130.60	J
ATOM	17370	OG1	THR J 158	13.621	126.865	188.629	1.00130.04	J
ATOM	17371	CG2	THR J 158	16.001	126.886	189.029	1.00130.62	J
ATOM	17372	C	THR J 158	14.247	128.790	190.617	1.00132.45	J
ATOM	17373	O	THR J 158	15.110	128.622	191.481	1.00132.59	J
ATOM	17374	N	GLY J 159	12.945	128.799	190.890	1.00133.19	J
ATOM	17375	CA	GLY J 159	12.487	128.620	192.258	1.00134.83	J
ATOM	17376	C	GLY J 159	11.237	127.780	192.456	1.00135.77	J
ATOM	17377	O	GLY J 159	10.699	127.210	191.506	1.00135.28	J
ATOM	17378	N	GLY J 160	10.783	127.717	193.706	1.00137.30	J
ATOM	17379	CA	GLY J 160	9.603	126.950	194.071	1.00139.84	J
ATOM	17380	C	GLY J 160	8.528	126.858	193.009	1.00141.81	J
ATOM	17381	O	GLY J 160	8.058	127.878	192.507	1.00142.40	J
ATOM	17382	N	CYS J 161	8.133	125.633	192.672	1.00143.16	J
ATOM	17383	CA	CYS J 161	7.113	125.406	191.658	1.00144.75	J
ATOM	17384	C	CYS J 161	5.712	125.623	192.195	1.00146.84	J
ATOM	17385	O	CYS J 161	5.492	125.638	193.409	1.00145.79	J
ATOM	17386	CB	CYS J 161	7.234	123.994	191.098	1.00144.08	J
ATOM	17387	SG	CYS J 161	8.818	123.698	190.259	1.00145.14	J
ATOM	17388	N	ASP J 162	4.769	125.776	191.269	1.00150.26	J
ATOM	17389	CA	ASP J 162	3.370	126.020	191.593	1.00154.09	J
ATOM	17390	CB	ASP J 162	2.619	126.442	190.328	1.00155.47	J
ATOM	17391	CG	ASP J 162	1.167	126.780	190.597	1.00157.78	J
ATOM	17392	OD1	ASP J 162	0.907	127.709	191.393	1.00157.66	J
ATOM	17393	OD2	ASP J 162	0.286	126.116	190.010	1.00159.66	J
ATOM	17394	C	ASP J 162	2.665	124.828	192.230	1.00156.49	J
ATOM	17395	O	ASP J 162	2.335	123.858	191.549	1.00156.52	J
ATOM	17396	N	VAL J 163	2.425	124.918	193.537	1.00158.83	J
ATOM	17397	CA	VAL J 163	1.749	123.857	194.276	1.00160.01	J
ATOM	17398	CB	VAL J 163	2.189	123.833	195.750	1.00158.84	J
ATOM	17399	CG1	VAL J 163	1.563	122.645	196.457	1.00159.30	J
ATOM	17400	CG2	VAL J 163	3.701	123.771	195.840	1.00158.65	J
ATOM	17401	C	VAL J 163	0.239	124.066	194.229	1.00161.79	J
ATOM	17402	O	VAL J 163	-0.331	124.722	195.101	1.00161.05	J
ATOM	17403	N	SER J 164	-0.400	123.507	193.206	1.00164.38	J
ATOM	17404	CA	SER J 164	-1.844	123.633	193.041	1.00166.63	J
ATOM	17405	CB	SER J 164	-2.228	123.504	191.563	1.00166.14	J
ATOM	17406	OG	SER J 164	-1.587	124.489	190.773	1.00165.47	J
ATOM	17407	C	SER J 164	-2.586	122.575	193.849	1.00168.56	J
ATOM	17408	O	SER J 164	-2.319	121.381	193.722	1.00169.28	J
ATOM	17409	N	ALA J 165	-3.519	123.025	194.680	1.00170.39	J

ATOM	17410	CA	ALA	J	165	-4.311	122.132	195.513	1.00172.32	J
ATOM	17411	CB	ALA	J	165	-3.513	121.713	196.738	1.00171.81	J
ATOM	17412	C	ALA	J	165	-5.575	122.863	195.935	1.00174.45	J
ATOM	17413	O	ALA	J	165	-5.534	123.721	196.817	1.00174.10	J
ATOM	17414	N	ARG	J	166	-6.691	122.519	195.297	1.00177.64	J
ATOM	17415	CA	ARG	J	166	-7.980	123.144	195.582	1.00181.04	J
ATOM	17416	CB	ARG	J	166	-9.123	122.172	195.267	1.00181.22	J
ATOM	17417	CG	ARG	J	166	-9.259	121.856	193.789	1.00182.40	J
ATOM	17418	CD	ARG	J	166	-10.524	121.074	193.490	1.00182.69	J
ATOM	17419	NE	ARG	J	166	-10.714	120.896	192.053	1.00182.92	J
ATOM	17420	CZ	ARG	J	166	-11.761	120.290	191.503	1.00182.80	J
ATOM	17421	NH1	ARG	J	166	-12.725	119.797	192.268	1.00183.69	J
ATOM	17422	NH2	ARG	J	166	-11.843	120.177	190.185	1.00182.31	J
ATOM	17423	C	ARG	J	166	-8.113	123.637	197.016	1.00183.04	J
ATOM	17424	O	ARG	J	166	-8.052	124.841	197.275	1.00183.19	J
ATOM	17425	N	ASP	J	167	-8.287	122.703	197.944	1.00185.21	J
ATOM	17426	CA	ASP	J	167	-8.437	123.039	199.354	1.00187.38	J
ATOM	17427	CB	ASP	J	167	-9.570	124.051	199.530	1.00188.10	J
ATOM	17428	CG	ASP	J	167	-10.821	123.662	198.764	1.00188.48	J
ATOM	17429	OD1	ASP	J	167	-11.786	124.455	198.762	1.00188.94	J
ATOM	17430	OD2	ASP	J	167	-10.842	122.566	198.164	1.00188.37	J
ATOM	17431	C	ASP	J	167	-8.730	121.791	200.171	1.00188.63	J
ATOM	17432	O	ASP	J	167	-9.154	120.772	199.624	1.00188.43	J
ATOM	17433	N	VAL	J	168	-8.503	121.882	201.480	1.00190.38	J
ATOM	17434	CA	VAL	J	168	-8.730	120.764	202.392	1.00192.21	J
ATOM	17435	CB	VAL	J	168	-8.896	121.265	203.853	1.00191.84	J
ATOM	17436	CG1	VAL	J	168	-9.965	122.341	203.919	1.00192.16	J
ATOM	17437	CG2	VAL	J	168	-9.247	120.102	204.771	1.00191.22	J
ATOM	17438	C	VAL	J	168	-9.945	119.923	201.998	1.00193.51	J
ATOM	17439	O	VAL	J	168	-11.092	120.298	202.248	1.00193.75	J
ATOM	17440	N	THR	J	169	-9.676	118.783	201.368	1.00194.46	J
ATOM	17441	CA	THR	J	169	-10.730	117.879	200.930	1.00194.95	J
ATOM	17442	CB	THR	J	169	-10.196	116.847	199.910	1.00194.75	J
ATOM	17443	OG1	THR	J	169	-9.650	117.530	198.775	1.00194.48	J
ATOM	17444	CG2	THR	J	169	-11.315	115.924	199.446	1.00194.58	J
ATOM	17445	C	THR	J	169	-11.302	117.131	202.125	1.00195.47	J
ATOM	17446	O	THR	J	169	-10.600	116.866	203.102	1.00195.21	J
ATOM	17447	N	VAL	J	170	-12.585	116.802	202.042	1.00196.17	J
ATOM	17448	CA	VAL	J	170	-13.254	116.076	203.108	1.00196.87	J
ATOM	17449	CB	VAL	J	170	-14.640	116.682	203.406	1.00197.03	J
ATOM	17450	CG1	VAL	J	170	-15.264	115.989	204.607	1.00196.79	J
ATOM	17451	CG2	VAL	J	170	-14.508	118.178	203.657	1.00196.75	J
ATOM	17452	C	VAL	J	170	-13.421	114.630	202.658	1.00197.33	J
ATOM	17453	O	VAL	J	170	-13.495	114.353	201.459	1.00197.31	J
ATOM	17454	N	THR	J	171	-13.471	113.710	203.614	1.00197.52	J
ATOM	17455	CA	THR	J	171	-13.624	112.301	203.283	1.00197.68	J
ATOM	17456	CB	THR	J	171	-12.506	111.458	203.916	1.00197.25	J
ATOM	17457	OG1	THR	J	171	-11.233	112.019	203.575	1.00196.76	J
ATOM	17458	CG2	THR	J	171	-12.569	110.033	203.401	1.00196.66	J
ATOM	17459	C	THR	J	171	-14.967	111.755	203.746	1.00198.10	J
ATOM	17460	O	THR	J	171	-15.320	111.860	204.922	1.00197.70	J
ATOM	17461	N	LEU	J	172	-15.711	111.175	202.809	1.00198.99	J
ATOM	17462	CA	LEU	J	172	-17.017	110.599	203.106	1.00199.70	J
ATOM	17463	CB	LEU	J	172	-17.554	109.851	201.880	1.00199.91	J
ATOM	17464	CG	LEU	J	172	-17.663	110.635	200.568	1.00200.00	J
ATOM	17465	CD1	LEU	J	172	-18.099	109.698	199.456	1.00199.86	J
ATOM	17466	CD2	LEU	J	172	-18.651	111.783	200.721	1.00199.94	J
ATOM	17467	C	LEU	J	172	-16.868	109.630	204.275	1.00200.00	J

ATOM	17468	O	LEU	J	172	-16.009	108.748	204.249	1.00200.00	J
ATOM	17469	N	PRO	J	173	-17.701	109.785	205.320	1.00200.00	J
ATOM	17470	CD	PRO	J	173	-18.839	110.714	205.440	1.00199.52	J
ATOM	17471	CA	PRO	J	173	-17.627	108.898	206.486	1.00199.94	J
ATOM	17472	CB	PRO	J	173	-18.697	109.467	207.418	1.00199.28	J
ATOM	17473	CG	PRO	J	173	-19.709	110.023	206.462	1.00199.02	J
ATOM	17474	C	PRO	J	173	-17.882	107.439	206.107	1.00200.00	J
ATOM	17475	O	PRO	J	173	-17.704	107.053	204.951	1.00199.89	J
ATOM	17476	N	ASP	J	174	-18.295	106.631	207.080	1.00200.00	J
ATOM	17477	CA	ASP	J	174	-18.569	105.216	206.833	1.00199.96	J
ATOM	17478	CB	ASP	J	174	-19.615	105.056	205.720	1.00200.00	J
ATOM	17479	CG	ASP	J	174	-20.934	105.740	206.042	1.00200.00	J
ATOM	17480	OD1	ASP	J	174	-20.936	106.969	206.267	1.00200.00	J
ATOM	17481	OD2	ASP	J	174	-21.973	105.045	206.062	1.00200.00	J
ATOM	17482	C	ASP	J	174	-17.291	104.493	206.414	1.00199.60	J
ATOM	17483	O	ASP	J	174	-16.241	105.115	206.245	1.00199.64	J
ATOM	17484	N	TYR	J	175	-17.385	103.175	206.253	1.00199.09	J
ATOM	17485	CA	TYR	J	175	-16.242	102.374	205.826	1.00198.33	J
ATOM	17486	CB	TYR	J	175	-16.520	100.878	206.028	1.00199.11	J
ATOM	17487	CG	TYR	J	175	-16.423	100.407	207.465	1.00199.65	J
ATOM	17488	CD1	TYR	J	175	-17.227	100.962	208.461	1.00199.78	J
ATOM	17489	CE1	TYR	J	175	-17.147	100.521	209.781	1.00200.00	J
ATOM	17490	CD2	TYR	J	175	-15.532	99.395	207.828	1.00199.84	J
ATOM	17491	CE2	TYR	J	175	-15.443	98.947	209.145	1.00199.95	J
ATOM	17492	CZ	TYR	J	175	-16.254	99.514	210.115	1.00200.00	J
ATOM	17493	OH	TYR	J	175	-16.174	99.075	211.416	1.00200.00	J
ATOM	17494	C	TYR	J	175	-15.947	102.653	204.351	1.00197.23	J
ATOM	17495	O	TYR	J	175	-14.792	102.850	203.969	1.00196.76	J
ATOM	17496	N	PRO	J	176	-16.992	102.667	203.498	1.00196.22	J
ATOM	17497	CD	PRO	J	176	-18.422	102.425	203.770	1.00196.04	J
ATOM	17498	CA	PRO	J	176	-16.781	102.933	202.072	1.00195.06	J
ATOM	17499	CB	PRO	J	176	-18.137	102.599	201.458	1.00195.33	J
ATOM	17500	CG	PRO	J	176	-19.087	103.001	202.539	1.00195.55	J
ATOM	17501	C	PRO	J	176	-16.385	104.389	201.854	1.00193.85	J
ATOM	17502	O	PRO	J	176	-17.181	105.201	201.376	1.00193.47	J
ATOM	17503	N	GLY	J	177	-15.150	104.711	202.223	1.00192.50	J
ATOM	17504	CA	GLY	J	177	-14.662	106.066	202.070	1.00190.96	J
ATOM	17505	C	GLY	J	177	-13.407	106.133	201.225	1.00189.64	J
ATOM	17506	O	GLY	J	177	-12.477	105.343	201.399	1.00188.97	J
ATOM	17507	N	SER	J	178	-13.391	107.088	200.303	1.00188.51	J
ATOM	17508	CA	SER	J	178	-12.265	107.296	199.403	1.00186.83	J
ATOM	17509	CB	SER	J	178	-12.094	106.097	198.468	1.00187.31	J
ATOM	17510	OG	SER	J	178	-11.088	106.344	197.501	1.00187.28	J
ATOM	17511	C	SER	J	178	-12.544	108.545	198.586	1.00185.19	J
ATOM	17512	O	SER	J	178	-13.403	108.541	197.705	1.00184.63	J
ATOM	17513	N	VAL	J	179	-11.820	109.615	198.886	1.00183.82	J
ATOM	17514	CA	VAL	J	179	-12.007	110.873	198.180	1.00182.61	J
ATOM	17515	CB	VAL	J	179	-12.541	111.965	199.140	1.00182.48	J
ATOM	17516	CG1	VAL	J	179	-13.949	111.609	199.591	1.00182.76	J
ATOM	17517	CG2	VAL	J	179	-11.628	112.093	200.353	1.00182.18	J
ATOM	17518	C	VAL	J	179	-10.722	111.367	197.518	1.00181.53	J
ATOM	17519	O	VAL	J	179	-10.060	112.273	198.026	1.00181.96	J
ATOM	17520	N	PRO	J	180	-10.355	110.777	196.366	1.00179.88	J
ATOM	17521	CD	PRO	J	180	-11.133	109.859	195.518	1.00179.18	J
ATOM	17522	CA	PRO	J	180	-9.132	111.206	195.679	1.00178.56	J
ATOM	17523	CB	PRO	J	180	-9.237	110.516	194.314	1.00178.56	J
ATOM	17524	CG	PRO	J	180	-10.715	110.290	194.143	1.00178.58	J
ATOM	17525	C	PRO	J	180	-9.068	112.728	195.577	1.00177.07	J

ATOM	17526	O	PRO	J	180	-9.884	113.348	194.897	1.00176.76	J
ATOM	17527	N	ILE	J	181	-8.096	113.317	196.269	1.00175.66	J
ATOM	17528	CA	ILE	J	181	-7.917	114.767	196.292	1.00174.32	J
ATOM	17529	CB	ILE	J	181	-7.118	115.204	197.541	1.00174.72	J
ATOM	17530	CG2	ILE	J	181	-6.970	116.720	197.561	1.00174.14	J
ATOM	17531	CG1	ILE	J	181	-7.820	114.716	198.810	1.00174.96	J
ATOM	17532	CD1	ILE	J	181	-7.065	115.026	200.088	1.00175.00	J
ATOM	17533	C	ILE	J	181	-7.200	115.312	195.059	1.00172.48	J
ATOM	17534	O	ILE	J	181	-6.141	114.812	194.670	1.00172.93	J
ATOM	17535	N	PRO	J	182	-7.776	116.348	194.423	1.00169.71	J
ATOM	17536	CD	PRO	J	182	-9.140	116.866	194.631	1.00169.29	J
ATOM	17537	CA	PRO	J	182	-7.171	116.953	193.232	1.00166.36	J
ATOM	17538	CB	PRO	J	182	-8.251	117.922	192.748	1.00167.15	J
ATOM	17539	CG	PRO	J	182	-9.524	117.292	193.237	1.00168.36	J
ATOM	17540	C	PRO	J	182	-5.875	117.674	193.602	1.00162.32	J
ATOM	17541	O	PRO	J	182	-5.849	118.471	194.543	1.00161.59	J
ATOM	17542	N	LEU	J	183	-4.803	117.389	192.869	1.00157.75	J
ATOM	17543	CA	LEU	J	183	-3.521	118.026	193.139	1.00153.15	J
ATOM	17544	CB	LEU	J	183	-2.861	117.369	194.355	1.00152.02	J
ATOM	17545	CG	LEU	J	183	-2.670	118.298	195.558	1.00150.27	J
ATOM	17546	CD1	LEU	J	183	-2.638	117.503	196.851	1.00149.04	J
ATOM	17547	CD2	LEU	J	183	-1.389	119.093	195.373	1.00149.56	J
ATOM	17548	C	LEU	J	183	-2.581	117.994	191.938	1.00150.44	J
ATOM	17549	O	LEU	J	183	-2.218	116.929	191.444	1.00149.37	J
ATOM	17550	N	THR	J	184	-2.204	119.184	191.477	1.00148.42	J
ATOM	17551	CA	THR	J	184	-1.310	119.357	190.337	1.00146.39	J
ATOM	17552	CB	THR	J	184	-2.076	119.857	189.098	1.00146.17	J
ATOM	17553	OG1	THR	J	184	-1.145	120.347	188.127	1.00145.78	J
ATOM	17554	CG2	THR	J	184	-3.039	120.972	189.478	1.00145.00	J
ATOM	17555	C	THR	J	184	-0.236	120.381	190.674	1.00145.73	J
ATOM	17556	O	THR	J	184	-0.431	121.223	191.548	1.00146.41	J
ATOM	17557	N	VAL	J	185	0.896	120.312	189.981	1.00144.59	J
ATOM	17558	CA	VAL	J	185	1.996	121.245	190.219	1.00144.40	J
ATOM	17559	CB	VAL	J	185	2.874	120.794	191.421	1.00144.63	J
ATOM	17560	CG1	VAL	J	185	4.159	121.614	191.475	1.00143.49	J
ATOM	17561	CG2	VAL	J	185	2.103	120.949	192.726	1.00143.00	J
ATOM	17562	C	VAL	J	185	2.899	121.395	188.995	1.00144.13	J
ATOM	17563	O	VAL	J	185	3.379	120.407	188.442	1.00143.41	J
ATOM	17564	N	TYR	J	186	3.124	122.638	188.577	1.00144.14	J
ATOM	17565	CA	TYR	J	186	3.984	122.917	187.433	1.00143.40	J
ATOM	17566	CB	TYR	J	186	3.145	123.189	186.182	1.00144.04	J
ATOM	17567	CG	TYR	J	186	2.290	124.432	186.235	1.00145.88	J
ATOM	17568	CD1	TYR	J	186	2.607	125.550	185.463	1.00146.10	J
ATOM	17569	CE1	TYR	J	186	1.810	126.691	185.486	1.00147.92	J
ATOM	17570	CD2	TYR	J	186	1.152	124.486	187.038	1.00147.04	J
ATOM	17571	CE2	TYR	J	186	0.348	125.621	187.070	1.00148.65	J
ATOM	17572	CZ	TYR	J	186	0.682	126.720	186.292	1.00148.90	J
ATOM	17573	OH	TYR	J	186	-0.112	127.844	186.321	1.00150.20	J
ATOM	17574	C	TYR	J	186	4.880	124.108	187.757	1.00142.67	J
ATOM	17575	O	TYR	J	186	4.609	124.854	188.701	1.00141.41	J
ATOM	17576	N	CYS	J	187	5.947	124.279	186.981	1.00143.12	J
ATOM	17577	CA	CYS	J	187	6.900	125.363	187.217	1.00143.64	J
ATOM	17578	C	CYS	J	187	6.997	126.358	186.064	1.00142.78	J
ATOM	17579	O	CYS	J	187	6.541	126.089	184.951	1.00142.85	J
ATOM	17580	CB	CYS	J	187	8.292	124.782	187.467	1.00145.06	J
ATOM	17581	SG	CYS	J	187	8.309	123.195	188.359	1.00145.25	J
ATOM	17582	N	ALA	J	188	7.601	127.511	186.343	1.00141.24	J
ATOM	17583	CA	ALA	J	188	7.792	128.539	185.329	1.00139.84	J

ATOM	17584	CB	ALA	J	188	8.308	129.815	185.971	1.00139.88	J
ATOM	17585	C	ALA	J	188	8.820	127.985	184.351	1.00139.59	J
ATOM	17586	O	ALA	J	188	8.844	128.342	183.173	1.00138.75	J
ATOM	17587	N	LYS	J	189	9.670	127.103	184.871	1.00140.73	J
ATOM	17588	CA	LYS	J	189	10.713	126.440	184.095	1.00140.80	J
ATOM	17589	CB	LYS	J	189	12.082	127.061	184.387	1.00141.63	J
ATOM	17590	CG	LYS	J	189	12.323	128.384	183.679	1.00142.41	J
ATOM	17591	CD	LYS	J	189	12.300	128.215	182.164	1.00142.18	J
ATOM	17592	CE	LYS	J	189	13.368	127.236	181.700	1.00142.69	J
ATOM	17593	NZ	LYS	J	189	13.369	127.076	180.223	1.00144.25	J
ATOM	17594	C	LYS	J	189	10.740	124.949	184.426	1.00139.47	J
ATOM	17595	O	LYS	J	189	10.912	124.556	185.583	1.00137.75	J
ATOM	17596	N	SER	J	190	10.565	124.128	183.397	1.00139.10	J
ATOM	17597	CA	SER	J	190	10.553	122.679	183.548	1.00138.53	J
ATOM	17598	CB	SER	J	190	10.510	122.011	182.171	1.00139.38	J
ATOM	17599	OG	SER	J	190	10.469	120.600	182.290	1.00141.47	J
ATOM	17600	C	SER	J	190	11.758	122.169	184.331	1.00137.41	J
ATOM	17601	O	SER	J	190	12.838	121.969	183.775	1.00137.19	J
ATOM	17602	N	GLN	J	191	11.558	121.958	185.627	1.00135.66	J
ATOM	17603	CA	GLN	J	191	12.611	121.465	186.504	1.00132.93	J
ATOM	17604	CB	GLN	J	191	12.948	122.519	187.555	1.00133.93	J
ATOM	17605	CG	GLN	J	191	11.728	123.041	188.295	1.00136.90	J
ATOM	17606	CD	GLN	J	191	12.083	123.773	189.575	1.00137.87	J
ATOM	17607	OE1	GLN	J	191	12.549	123.166	190.544	1.00136.57	J
ATOM	17608	NE2	GLN	J	191	11.866	125.085	189.586	1.00139.58	J
ATOM	17609	C	GLN	J	191	12.147	120.188	187.196	1.00130.56	J
ATOM	17610	O	GLN	J	191	11.050	120.141	187.752	1.00130.99	J
ATOM	17611	N	ASN	J	192	12.986	119.156	187.164	1.00127.20	J
ATOM	17612	CA	ASN	J	192	12.649	117.880	187.785	1.00123.05	J
ATOM	17613	CB	ASN	J	192	13.786	116.880	187.579	1.00121.69	J
ATOM	17614	CG	ASN	J	192	13.757	116.255	186.203	1.00120.42	J
ATOM	17615	OD1	ASN	J	192	13.558	116.941	185.199	1.00120.31	J
ATOM	17616	ND2	ASN	J	192	13.960	114.946	186.146	1.00121.01	J
ATOM	17617	C	ASN	J	192	12.323	118.007	189.267	1.00119.50	J
ATOM	17618	O	ASN	J	192	13.119	118.528	190.050	1.00118.77	J
ATOM	17619	N	LEU	J	193	11.140	117.519	189.631	1.00115.16	J
ATOM	17620	CA	LEU	J	193	10.656	117.564	191.003	1.00111.28	J
ATOM	17621	CB	LEU	J	193	9.264	118.201	191.046	1.00109.45	J
ATOM	17622	CG	LEU	J	193	9.165	119.685	191.399	1.00105.54	J
ATOM	17623	CD1	LEU	J	193	7.729	120.156	191.254	1.00103.82	J
ATOM	17624	CD2	LEU	J	193	9.656	119.897	192.825	1.00105.36	J
ATOM	17625	C	LEU	J	193	10.588	116.194	191.660	1.00109.49	J
ATOM	17626	O	LEU	J	193	10.692	115.162	190.996	1.00109.62	J
ATOM	17627	N	GLY	J	194	10.403	116.208	192.976	1.00107.00	J
ATOM	17628	CA	GLY	J	194	10.295	114.986	193.747	1.00105.00	J
ATOM	17629	C	GLY	J	194	9.541	115.308	195.021	1.00104.66	J
ATOM	17630	O	GLY	J	194	9.408	116.482	195.371	1.00103.82	J
ATOM	17631	N	TYR	J	195	9.041	114.288	195.716	1.00104.55	J
ATOM	17632	CA	TYR	J	195	8.303	114.520	196.958	1.00103.00	J
ATOM	17633	CB	TYR	J	195	6.956	115.184	196.661	1.00105.57	J
ATOM	17634	CG	TYR	J	195	5.937	114.234	196.073	1.00105.87	J
ATOM	17635	CD1	TYR	J	195	6.015	113.831	194.738	1.00107.07	J
ATOM	17636	CE1	TYR	J	195	5.104	112.922	194.207	1.00107.25	J
ATOM	17637	CD2	TYR	J	195	4.918	113.704	196.864	1.00105.22	J
ATOM	17638	CE2	TYR	J	195	4.006	112.794	196.347	1.00107.09	J
ATOM	17639	CZ	TYR	J	195	4.104	112.407	195.017	1.00108.83	J
ATOM	17640	OH	TYR	J	195	3.200	111.508	194.497	1.00112.99	J
ATOM	17641	C	TYR	J	195	8.040	113.247	197.755	1.00100.85	J

ATOM	17642	O	TYR	J	195	7.944	112.158	197.194	1.00	99.47	J
ATOM	17643	N	TYR	J	196	7.908	113.402	199.068	1.00	100.97	J
ATOM	17644	CA	TYR	J	196	7.627	112.284	199.954	1.00	102.33	J
ATOM	17645	CB	TYR	J	196	8.903	111.808	200.667	1.00	102.96	J
ATOM	17646	CG	TYR	J	196	9.462	112.714	201.752	1.00	103.33	J
ATOM	17647	CD1	TYR	J	196	8.781	112.901	202.953	1.00	103.44	J
ATOM	17648	CE1	TYR	J	196	9.324	113.672	203.975	1.00	103.63	J
ATOM	17649	CD2	TYR	J	196	10.708	113.332	201.600	1.00	102.07	J
ATOM	17650	CE2	TYR	J	196	11.260	114.110	202.620	1.00	101.28	J
ATOM	17651	CZ	TYR	J	196	10.560	114.273	203.807	1.00	103.73	J
ATOM	17652	OH	TYR	J	196	11.089	115.028	204.835	1.00	104.54	J
ATOM	17653	C	TYR	J	196	6.582	112.741	200.952	1.00	105.04	J
ATOM	17654	O	TYR	J	196	6.560	113.902	201.345	1.00	104.14	J
ATOM	17655	N	LEU	J	197	5.713	111.828	201.360	1.00	110.28	J
ATOM	17656	CA	LEU	J	197	4.644	112.172	202.287	1.00	117.00	J
ATOM	17657	CB	LEU	J	197	3.442	111.260	202.039	1.00	118.03	J
ATOM	17658	CG	LEU	J	197	3.132	110.988	200.564	1.00	119.72	J
ATOM	17659	CD1	LEU	J	197	1.902	110.097	200.466	1.00	120.20	J
ATOM	17660	CD2	LEU	J	197	2.919	112.300	199.819	1.00	118.31	J
ATOM	17661	C	LEU	J	197	5.040	112.106	203.758	1.00	120.48	J
ATOM	17662	O	LEU	J	197	4.728	111.135	204.446	1.00	120.76	J
ATOM	17663	N	SER	J	198	5.714	113.146	204.241	1.00	124.13	J
ATOM	17664	CA	SER	J	198	6.129	113.195	205.638	1.00	128.74	J
ATOM	17665	CB	SER	J	198	7.091	114.363	205.872	1.00	129.73	J
ATOM	17666	OG	SER	J	198	6.618	115.552	205.268	1.00	132.37	J
ATOM	17667	C	SER	J	198	4.931	113.328	206.571	1.00	131.76	J
ATOM	17668	O	SER	J	198	4.158	114.283	206.476	1.00	132.47	J
ATOM	17669	N	GLY	J	199	4.786	112.364	207.475	1.00	134.65	J
ATOM	17670	CA	GLY	J	199	3.681	112.385	208.416	1.00	137.64	J
ATOM	17671	C	GLY	J	199	3.888	111.380	209.533	1.00	139.82	J
ATOM	17672	O	GLY	J	199	5.008	110.919	209.754	1.00	140.16	J
ATOM	17673	N	THR	J	200	2.812	111.038	210.236	1.00	141.49	J
ATOM	17674	CA	THR	J	200	2.884	110.081	211.339	1.00	142.52	J
ATOM	17675	CB	THR	J	200	2.659	110.779	212.698	1.00	142.68	J
ATOM	17676	OG1	THR	J	200	3.712	111.726	212.927	1.00	142.42	J
ATOM	17677	CG2	THR	J	200	2.642	109.757	213.830	1.00	141.26	J
ATOM	17678	C	THR	J	200	1.867	108.953	211.186	1.00	142.69	J
ATOM	17679	O	THR	J	200	0.679	109.196	210.976	1.00	142.06	J
ATOM	17680	N	THR	J	201	2.350	107.719	211.304	1.00	143.65	J
ATOM	17681	CA	THR	J	201	1.510	106.533	211.172	1.00	144.43	J
ATOM	17682	CB	THR	J	201	2.178	105.482	210.264	1.00	143.44	J
ATOM	17683	OG1	THR	J	201	1.242	104.440	209.963	1.00	141.44	J
ATOM	17684	CG2	THR	J	201	3.385	104.873	210.967	1.00	143.52	J
ATOM	17685	C	THR	J	201	1.237	105.883	212.527	1.00	145.66	J
ATOM	17686	O	THR	J	201	1.822	106.263	213.544	1.00	145.29	J
ATOM	17687	N	ALA	J	202	0.352	104.891	212.525	1.00	147.16	J
ATOM	17688	CA	ALA	J	202	-0.011	104.175	213.740	1.00	148.08	J
ATOM	17689	CB	ALA	J	202	-1.510	104.309	213.997	1.00	147.38	J
ATOM	17690	C	ALA	J	202	0.369	102.702	213.632	1.00	149.05	J
ATOM	17691	O	ALA	J	202	-0.459	101.825	213.877	1.00	149.66	J
ATOM	17692	N	ASP	J	203	1.618	102.434	213.262	1.00	149.60	J
ATOM	17693	CA	ASP	J	203	2.096	101.060	213.128	1.00	150.25	J
ATOM	17694	CB	ASP	J	203	1.269	100.306	212.075	1.00	150.64	J
ATOM	17695	CG	ASP	J	203	1.295	100.979	210.710	1.00	150.30	J
ATOM	17696	OD1	ASP	J	203	0.801	100.373	209.735	1.00	149.67	J
ATOM	17697	OD2	ASP	J	203	1.802	102.115	210.613	1.00	150.06	J
ATOM	17698	C	ASP	J	203	3.571	100.998	212.748	1.00	150.58	J
ATOM	17699	O	ASP	J	203	4.291	101.993	212.831	1.00	150.26	J

ATOM	17700	N	ALA	J	204	4.010	99.813	212.335	1.00151.41	J
ATOM	17701	CA	ALA	J	204	5.389	99.598	211.920	1.00151.60	J
ATOM	17702	CB	ALA	J	204	5.911	98.283	212.489	1.00151.51	J
ATOM	17703	C	ALA	J	204	5.448	99.577	210.394	1.00151.47	J
ATOM	17704	O	ALA	J	204	6.522	99.459	209.806	1.00152.20	J
ATOM	17705	N	GLY	J	205	4.282	99.684	209.761	1.00150.78	J
ATOM	17706	CA	GLY	J	205	4.220	99.694	208.311	1.00150.55	J
ATOM	17707	C	GLY	J	205	4.365	101.111	207.788	1.00150.93	J
ATOM	17708	O	GLY	J	205	4.317	101.347	206.580	1.00149.99	J
ATOM	17709	N	ASN	J	206	4.546	102.050	208.715	1.00151.81	J
ATOM	17710	CA	ASN	J	206	4.703	103.475	208.417	1.00152.09	J
ATOM	17711	CB	ASN	J	206	6.185	103.865	208.506	1.00149.63	J
ATOM	17712	CG	ASN	J	206	6.653	104.056	209.943	1.00146.90	J
ATOM	17713	OD1	ASN	J	206	6.233	104.989	210.623	1.00144.10	J
ATOM	17714	ND2	ASN	J	206	7.523	103.169	210.408	1.00146.63	J
ATOM	17715	C	ASN	J	206	4.104	103.948	207.091	1.00153.53	J
ATOM	17716	O	ASN	J	206	4.778	104.568	206.268	1.00152.45	J
ATOM	17717	N	SER	J	207	2.822	103.653	206.905	1.00156.29	J
ATOM	17718	CA	SER	J	207	2.091	104.049	205.707	1.00158.70	J
ATOM	17719	CB	SER	J	207	2.224	102.984	204.618	1.00157.70	J
ATOM	17720	OG	SER	J	207	1.583	101.783	205.003	1.00157.43	J
ATOM	17721	C	SER	J	207	0.621	104.228	206.076	1.00161.09	J
ATOM	17722	O	SER	J	207	-0.226	104.445	205.211	1.00161.83	J
ATOM	17723	N	ILE	J	208	0.330	104.131	207.371	1.00163.46	J
ATOM	17724	CA	ILE	J	208	-1.030	104.285	207.882	1.00165.43	J
ATOM	17725	CB	ILE	J	208	-1.500	103.001	208.607	1.00165.64	J
ATOM	17726	CG2	ILE	J	208	-2.913	103.190	209.146	1.00164.93	J
ATOM	17727	CG1	ILE	J	208	-1.450	101.814	207.641	1.00165.45	J
ATOM	17728	CD1	ILE	J	208	-1.833	100.488	208.269	1.00165.02	J
ATOM	17729	C	ILE	J	208	-1.078	105.457	208.863	1.00166.76	J
ATOM	17730	O	ILE	J	208	-1.122	105.261	210.079	1.00166.53	J
ATOM	17731	N	PHE	J	209	-1.068	106.673	208.321	1.00168.35	J
ATOM	17732	CA	PHE	J	209	-1.095	107.889	209.129	1.00169.27	J
ATOM	17733	CB	PHE	J	209	-1.325	109.115	208.231	1.00167.46	J
ATOM	17734	CG	PHE	J	209	-0.417	109.169	207.019	1.00165.17	J
ATOM	17735	CD1	PHE	J	209	-0.719	108.437	205.872	1.00163.87	J
ATOM	17736	CD2	PHE	J	209	0.744	109.940	207.030	1.00163.89	J
ATOM	17737	CE1	PHE	J	209	0.119	108.473	204.755	1.00162.62	J
ATOM	17738	CE2	PHE	J	209	1.590	109.982	205.916	1.00162.30	J
ATOM	17739	CZ	PHE	J	209	1.276	109.247	204.779	1.00162.15	J
ATOM	17740	C	PHE	J	209	-2.172	107.809	210.215	1.00171.03	J
ATOM	17741	O	PHE	J	209	-3.191	107.143	210.042	1.00170.99	J
ATOM	17742	N	THR	J	210	-1.938	108.489	211.335	1.00173.41	J
ATOM	17743	CA	THR	J	210	-2.874	108.471	212.459	1.00176.17	J
ATOM	17744	CB	THR	J	210	-2.138	108.715	213.792	1.00175.40	J
ATOM	17745	OG1	THR	J	210	-1.333	109.896	213.689	1.00174.41	J
ATOM	17746	CG2	THR	J	210	-1.256	107.534	214.139	1.00175.90	J
ATOM	17747	C	THR	J	210	-4.021	109.474	212.368	1.00178.74	J
ATOM	17748	O	THR	J	210	-4.294	110.037	211.309	1.00179.08	J
ATOM	17749	N	ASN	J	211	-4.688	109.678	213.502	1.00181.40	J
ATOM	17750	CA	ASN	J	211	-5.814	110.604	213.618	1.00183.80	J
ATOM	17751	CB	ASN	J	211	-7.094	109.830	213.960	1.00184.07	J
ATOM	17752	CG	ASN	J	211	-8.304	110.738	214.150	1.00184.57	J
ATOM	17753	OD1	ASN	J	211	-9.368	110.285	214.572	1.00184.72	J
ATOM	17754	ND2	ASN	J	211	-8.147	112.018	213.834	1.00184.83	J
ATOM	17755	C	ASN	J	211	-5.508	111.614	214.728	1.00185.35	J
ATOM	17756	O	ASN	J	211	-5.295	111.232	215.879	1.00185.12	J
ATOM	17757	N	THR	J	212	-5.490	112.898	214.377	1.00187.13	J

ATOM	17758	CA	THR	J	212	-5.200	113.959	215.340	1.00188.42	J
ATOM	17759	CB	THR	J	212	-4.423	115.116	214.675	1.00187.90	J
ATOM	17760	OG1	THR	J	212	-3.313	114.590	213.936	1.00186.74	J
ATOM	17761	CG2	THR	J	212	-3.901	116.080	215.731	1.00187.32	J
ATOM	17762	C	THR	J	212	-6.478	114.531	215.951	1.00189.93	J
ATOM	17763	O	THR	J	212	-6.945	115.597	215.544	1.00190.39	J
ATOM	17764	N	ALA	J	213	-7.038	113.826	216.930	1.00191.19	J
ATOM	17765	CA	ALA	J	213	-8.263	114.278	217.581	1.00192.47	J
ATOM	17766	CB	ALA	J	213	-9.458	114.038	216.659	1.00192.45	J
ATOM	17767	C	ALA	J	213	-8.499	113.596	218.926	1.00193.35	J
ATOM	17768	O	ALA	J	213	-7.963	112.521	219.196	1.00193.23	J
ATOM	17769	N	SER	J	214	-9.307	114.239	219.765	1.00194.52	J
ATOM	17770	CA	SER	J	214	-9.651	113.717	221.085	1.00195.20	J
ATOM	17771	CB	SER	J	214	-9.382	114.780	222.156	1.00194.53	J
ATOM	17772	OG	SER	J	214	-9.742	114.311	223.443	1.00193.80	J
ATOM	17773	C	SER	J	214	-11.131	113.329	221.088	1.00195.96	J
ATOM	17774	O	SER	J	214	-11.670	112.875	222.099	1.00195.82	J
ATOM	17775	N	PHE	J	215	-11.770	113.516	219.935	1.00196.73	J
ATOM	17776	CA	PHE	J	215	-13.183	113.204	219.732	1.00197.14	J
ATOM	17777	CB	PHE	J	215	-13.728	114.050	218.569	1.00197.56	J
ATOM	17778	CG	PHE	J	215	-15.119	113.670	218.105	1.00198.88	J
ATOM	17779	CD1	PHE	J	215	-15.619	114.195	216.919	1.00199.29	J
ATOM	17780	CD2	PHE	J	215	-15.918	112.783	218.827	1.00199.80	J
ATOM	17781	CE1	PHE	J	215	-16.886	113.850	216.455	1.00200.00	J
ATOM	17782	CE2	PHE	J	215	-17.190	112.430	218.369	1.00200.00	J
ATOM	17783	CZ	PHE	J	215	-17.671	112.964	217.179	1.00200.00	J
ATOM	17784	C	PHE	J	215	-13.355	111.720	219.424	1.00197.26	J
ATOM	17785	O	PHE	J	215	-12.944	111.249	218.363	1.00197.30	J
ATOM	17786	N	SER	J	216	-13.976	110.997	220.354	1.00197.27	J
ATOM	17787	CA	SER	J	216	-14.225	109.566	220.201	1.00197.05	J
ATOM	17788	CB	SER	J	216	-15.541	109.342	219.445	1.00196.96	J
ATOM	17789	OG	SER	J	216	-15.870	107.965	219.370	1.00196.07	J
ATOM	17790	C	SER	J	216	-13.075	108.884	219.462	1.00196.93	J
ATOM	17791	O	SER	J	216	-13.194	108.549	218.282	1.00196.90	J
ATOM	17792	N	PRO	J	217	-11.944	108.671	220.156	1.00196.57	J
ATOM	17793	CD	PRO	J	217	-11.783	108.883	221.605	1.00196.59	J
ATOM	17794	CA	PRO	J	217	-10.746	108.032	219.599	1.00195.97	J
ATOM	17795	CB	PRO	J	217	-9.784	108.028	220.783	1.00196.31	J
ATOM	17796	CG	PRO	J	217	-10.713	107.876	221.947	1.00196.65	J
ATOM	17797	C	PRO	J	217	-11.004	106.625	219.065	1.00195.25	J
ATOM	17798	O	PRO	J	217	-10.702	105.633	219.730	1.00195.19	J
ATOM	17799	N	ALA	J	218	-11.558	106.548	217.860	1.00194.28	J
ATOM	17800	CA	ALA	J	218	-11.853	105.264	217.239	1.00193.14	J
ATOM	17801	CB	ALA	J	218	-12.559	105.479	215.906	1.00193.30	J
ATOM	17802	C	ALA	J	218	-10.573	104.460	217.035	1.00192.03	J
ATOM	17803	O	ALA	J	218	-9.505	105.021	216.785	1.00192.00	J
ATOM	17804	N	GLN	J	219	-10.691	103.142	217.149	1.00190.47	J
ATOM	17805	CA	GLN	J	219	-9.555	102.242	216.983	1.00188.53	J
ATOM	17806	CB	GLN	J	219	-9.815	100.945	217.752	1.00187.77	J
ATOM	17807	CG	GLN	J	219	-9.985	101.134	219.249	1.00185.72	J
ATOM	17808	CD	GLN	J	219	-10.670	99.956	219.909	1.00184.57	J
ATOM	17809	OE1	GLN	J	219	-11.885	99.791	219.805	1.00182.68	J
ATOM	17810	NE2	GLN	J	219	-9.891	99.123	220.585	1.00183.90	J
ATOM	17811	C	GLN	J	219	-9.320	101.926	215.507	1.00187.39	J
ATOM	17812	O	GLN	J	219	-10.248	101.553	214.792	1.00187.67	J
ATOM	17813	N	GLY	J	220	-8.080	102.083	215.056	1.00185.66	J
ATOM	17814	CA	GLY	J	220	-7.753	101.795	213.671	1.00183.53	J
ATOM	17815	C	GLY	J	220	-8.392	102.702	212.635	1.00182.12	J

ATOM	17816	O	GLY	J	220	-9.105	102.231	211.748	1.00182.08	J
ATOM	17817	N	VAL	J	221	-8.135	104.002	212.741	1.00180.62	J
ATOM	17818	CA	VAL	J	221	-8.682	104.972	211.798	1.00178.75	J
ATOM	17819	CB	VAL	J	221	-9.801	105.819	212.438	1.00177.93	J
ATOM	17820	CG1	VAL	J	221	-10.340	106.818	211.426	1.00176.85	J
ATOM	17821	CG2	VAL	J	221	-10.914	104.917	212.936	1.00177.48	J
ATOM	17822	C	VAL	J	221	-7.585	105.909	211.313	1.00178.03	J
ATOM	17823	O	VAL	J	221	-7.264	106.898	211.972	1.00177.93	J
ATOM	17824	N	GLY	J	222	-7.013	105.590	210.157	1.00177.25	J
ATOM	17825	CA	GLY	J	222	-5.956	106.415	209.602	1.00176.22	J
ATOM	17826	C	GLY	J	222	-6.162	106.740	208.133	1.00175.16	J
ATOM	17827	O	GLY	J	222	-7.290	106.722	207.636	1.00175.89	J
ATOM	17828	N	VAL	J	223	-5.069	107.042	207.437	1.00172.80	J
ATOM	17829	CA	VAL	J	223	-5.124	107.373	206.017	1.00169.79	J
ATOM	17830	CB	VAL	J	223	-5.098	108.906	209.795	1.00170.18	J
ATOM	17831	CG1	VAL	J	223	-5.192	109.225	204.310	1.00169.97	J
ATOM	17832	CG2	VAL	J	223	-6.246	109.562	206.547	1.00169.86	J
ATOM	17833	C	VAL	J	223	-3.934	106.754	205.290	1.00167.43	J
ATOM	17834	O	VAL	J	223	-2.951	106.354	205.913	1.00167.20	J
ATOM	17835	N	GLN	J	224	-4.033	106.672	203.968	1.00164.67	J
ATOM	17836	CA	GLN	J	224	-2.966	106.109	203.157	1.00161.98	J
ATOM	17837	CB	GLN	J	224	-2.901	104.594	203.349	1.00161.97	J
ATOM	17838	CG	GLN	J	224	-1.629	103.963	202.822	1.00160.79	J
ATOM	17839	CD	GLN	J	224	-1.541	102.486	203.137	1.00159.39	J
ATOM	17840	OE1	GLN	J	224	-1.728	102.071	204.280	1.00158.80	J
ATOM	17841	NE2	GLN	J	224	-1.249	101.682	202.124	1.00158.31	J
ATOM	17842	C	GLN	J	224	-3.227	106.443	201.696	1.00159.97	J
ATOM	17843	O	GLN	J	224	-3.917	105.707	200.987	1.00159.89	J
ATOM	17844	N	LEU	J	225	-2.669	107.567	201.259	1.00157.25	J
ATOM	17845	CA	LEU	J	225	-2.828	108.049	199.891	1.00154.20	J
ATOM	17846	CB	LEU	J	225	-1.971	109.302	199.686	1.00155.55	J
ATOM	17847	CG	LEU	J	225	-1.911	110.282	200.866	1.00156.43	J
ATOM	17848	CD1	LEU	J	225	-1.116	111.511	200.457	1.00155.76	J
ATOM	17849	CD2	LEU	J	225	-3.318	110.677	201.304	1.00156.47	J
ATOM	17850	C	LEU	J	225	-2.450	106.988	198.860	1.00150.94	J
ATOM	17851	O	LEU	J	225	-1.892	105.946	199.205	1.00151.32	J
ATOM	17852	N	THR	J	226	-2.751	107.258	197.594	1.00146.88	J
ATOM	17853	CA	THR	J	226	-2.440	106.316	196.526	1.00143.31	J
ATOM	17854	CB	THR	J	226	-3.324	105.058	196.622	1.00142.79	J
ATOM	17855	OG1	THR	J	226	-3.166	104.274	195.434	1.00140.96	J
ATOM	17856	CG2	THR	J	226	-4.786	105.441	196.785	1.00141.68	J
ATOM	17857	C	THR	J	226	-2.602	106.898	195.128	1.00141.53	J
ATOM	17858	O	THR	J	226	-3.703	107.266	194.717	1.00141.76	J
ATOM	17859	N	ARG	J	227	-1.495	106.970	194.397	1.00139.37	J
ATOM	17860	CA	ARG	J	227	-1.510	107.491	193.038	1.00138.22	J
ATOM	17861	CB	ARG	J	227	-0.127	108.016	192.655	1.00138.09	J
ATOM	17862	CG	ARG	J	227	1.023	107.100	193.035	1.00137.44	J
ATOM	17863	CD	ARG	J	227	2.360	107.723	192.651	1.00137.98	J
ATOM	17864	NE	ARG	J	227	3.448	107.273	193.516	1.00137.19	J
ATOM	17865	CZ	ARG	J	227	3.906	106.028	193.568	1.00136.88	J
ATOM	17866	NH1	ARG	J	227	4.896	105.723	194.394	1.00137.75	J
ATOM	17867	NH2	ARG	J	227	3.382	105.091	192.792	1.00136.46	J
ATOM	17868	C	ARG	J	227	-1.937	106.404	192.064	1.00138.08	J
ATOM	17869	O	ARG	J	227	-1.107	105.649	191.556	1.00137.26	J
ATOM	17870	N	ASN	J	228	-3.240	106.335	191.810	1.00138.95	J
ATOM	17871	CA	ASN	J	228	-3.806	105.339	190.905	1.00139.16	J
ATOM	17872	CB	ASN	J	228	-3.378	105.618	189.462	1.00138.67	J
ATOM	17873	CG	ASN	J	228	-4.191	106.722	188.818	1.00138.41	J

ATOM	17874	OD1	ASN	J	228	-4.032	107.012	187.631	1.00138.54	J
ATOM	17875	ND2	ASN	J	228	-5.073	107.342	189.597	1.00137.77	J
ATOM	17876	C	ASN	J	228	-3.430	103.910	191.283	1.00138.67	J
ATOM	17877	O	ASN	J	228	-2.625	103.268	190.604	1.00138.37	J
ATOM	17878	N	GLY	J	229	-4.022	103.421	192.368	1.00137.93	J
ATOM	17879	CA	GLY	J	229	-3.748	102.070	192.819	1.00137.30	J
ATOM	17880	C	GLY	J	229	-2.481	101.936	193.642	1.00136.83	J
ATOM	17881	O	GLY	J	229	-2.503	101.379	194.739	1.00137.48	J
ATOM	17882	N	THR	J	230	-1.371	102.442	193.114	1.00135.92	J
ATOM	17883	CA	THR	J	230	-0.096	102.362	193.815	1.00134.68	J
ATOM	17884	CB	THR	J	230	1.081	102.752	192.889	1.00134.14	J
ATOM	17885	OG1	THR	J	230	0.995	102.019	191.660	1.00131.11	J
ATOM	17886	CG2	THR	J	230	2.409	102.431	193.562	1.00134.76	J
ATOM	17887	C	THR	J	230	-0.094	103.295	195.022	1.00134.00	J
ATOM	17888	O	THR	J	230	0.050	104.506	194.876	1.00135.03	J
ATOM	17889	N	ILE	J	231	-0.265	102.731	196.214	1.00133.55	J
ATOM	17890	CA	ILE	J	231	-0.267	103.535	197.430	1.00133.99	J
ATOM	17891	CB	ILE	J	231	-0.763	102.715	198.657	1.00134.11	J
ATOM	17892	CG2	ILE	J	231	-0.388	103.422	199.951	1.00134.27	J
ATOM	17893	CG1	ILE	J	231	-2.282	102.522	198.573	1.00133.37	J
ATOM	17894	CD1	ILE	J	231	-2.896	101.810	199.766	1.00129.92	J
ATOM	17895	C	ILE	J	231	1.139	104.071	197.697	1.00134.41	J
ATOM	17896	O	ILE	J	231	2.135	103.487	197.259	1.00133.98	J
ATOM	17897	N	ILE	J	232	1.212	105.190	198.410	1.00134.42	J
ATOM	17898	CA	ILE	J	232	2.490	105.815	198.723	1.00133.26	J
ATOM	17899	CB	ILE	J	232	2.589	107.221	198.091	1.00134.43	J
ATOM	17900	CG2	ILE	J	232	3.981	107.798	198.319	1.00135.95	J
ATOM	17901	CG1	ILE	J	232	2.291	107.142	196.592	1.00135.08	J
ATOM	17902	CD1	ILE	J	232	2.203	108.493	195.923	1.00135.99	J
ATOM	17903	C	ILE	J	232	2.701	105.958	200.227	1.00130.74	J
ATOM	17904	O	ILE	J	232	2.014	106.739	200.888	1.00131.13	J
ATOM	17905	N	PRO	J	233	3.646	105.189	200.788	1.00127.88	J
ATOM	17906	CD	PRO	J	233	4.339	104.054	200.151	1.00126.72	J
ATOM	17907	CA	PRO	J	233	3.941	105.248	202.223	1.00124.92	J
ATOM	17908	CB	PRO	J	233	4.660	103.927	202.477	1.00126.29	J
ATOM	17909	CG	PRO	J	233	5.382	103.694	201.181	1.00127.39	J
ATOM	17910	C	PRO	J	233	4.812	106.466	202.539	1.00121.37	J
ATOM	17911	O	PRO	J	233	5.454	107.020	201.649	1.00120.00	J
ATOM	17912	N	ALA	J	234	4.828	106.883	203.801	1.00118.78	J
ATOM	17913	CA	ALA	J	234	5.616	108.044	204.218	1.00116.12	J
ATOM	17914	CB	ALA	J	234	5.472	108.252	205.720	1.00115.75	J
ATOM	17915	C	ALA	J	234	7.094	107.918	203.851	1.00114.28	J
ATOM	17916	O	ALA	J	234	7.557	106.841	203.484	1.00116.77	J
ATOM	17917	N	ASN	J	235	7.824	109.028	203.948	1.00110.04	J
ATOM	17918	CA	ASN	J	235	9.257	109.068	203.644	1.00105.36	J
ATOM	17919	CB	ASN	J	235	10.053	108.555	204.846	1.00 99.61	J
ATOM	17920	CG	ASN	J	235	9.979	109.492	206.033	1.00 95.62	J
ATOM	17921	OD1	ASN	J	235	10.740	110.453	206.129	1.00 96.08	J
ATOM	17922	ND2	ASN	J	235	9.048	109.225	206.936	1.00 93.79	J
ATOM	17923	C	ASN	J	235	9.652	108.287	202.393	1.00105.37	J
ATOM	17924	O	ASN	J	235	10.802	107.887	202.235	1.00105.72	J
ATOM	17925	N	ASN	J	236	8.693	108.078	201.502	1.00106.74	J
ATOM	17926	CA	ASN	J	236	8.945	107.351	200.268	1.00108.72	J
ATOM	17927	CB	ASN	J	236	7.888	106.259	200.075	1.00112.48	J
ATOM	17928	CG	ASN	J	236	8.116	105.435	198.817	1.00114.89	J
ATOM	17929	OD1	ASN	J	236	9.047	104.629	198.749	1.00113.53	J
ATOM	17930	ND2	ASN	J	236	7.266	105.639	197.811	1.00114.27	J
ATOM	17931	C	ASN	J	236	8.893	108.330	199.102	1.00109.01	J

ATOM	17932	O	ASN	J	236	7.930	108.345	198.334	1.00109.30	J
ATOM	17933	N	THR	J	237	9.926	109.155	198.985	1.00108.58	J
ATOM	17934	CA	THR	J	237	9.999	110.134	197.911	1.00110.27	J
ATOM	17935	CB	THR	J	237	11.428	110.696	197.777	1.00109.42	J
ATOM	17936	OG1	THR	J	237	11.769	111.406	198.971	1.00111.06	J
ATOM	17937	CG2	THR	J	237	11.528	111.643	196.592	1.00109.70	J
ATOM	17938	C	THR	J	237	9.579	109.508	196.585	1.00112.07	J
ATOM	17939	O	THR	J	237	9.910	108.357	196.300	1.00112.17	J
ATOM	17940	N	VAL	J	238	8.838	110.265	195.782	1.00113.59	J
ATOM	17941	CA	VAL	J	238	8.385	109.771	194.492	1.00115.47	J
ATOM	17942	CB	VAL	J	238	6.852	109.639	194.448	1.00114.57	J
ATOM	17943	CG1	VAL	J	238	6.431	108.928	193.169	1.00114.80	J
ATOM	17944	CG2	VAL	J	238	6.361	108.879	195.668	1.00114.07	J
ATOM	17945	C	VAL	J	238	8.836	110.708	193.381	1.00117.68	J
ATOM	17946	O	VAL	J	238	8.951	111.919	193.585	1.00116.48	J
ATOM	17947	N	SER	J	239	9.091	110.135	192.207	1.00120.32	J
ATOM	17948	CA	SER	J	239	9.546	110.900	191.051	1.00122.64	J
ATOM	17949	CB	SER	J	239	10.204	109.969	190.028	1.00122.05	J
ATOM	17950	OG	SER	J	239	10.644	110.691	188.889	1.00121.15	J
ATOM	17951	C	SER	J	239	8.432	111.688	190.369	1.00124.32	J
ATOM	17952	O	SER	J	239	7.247	111.391	190.522	1.00125.40	J
ATOM	17953	N	LEU	J	240	8.835	112.700	189.611	1.00125.05	J
ATOM	17954	CA	LEU	J	240	7.908	113.551	188.883	1.00124.72	J
ATOM	17955	CB	LEU	J	240	7.607	114.811	189.699	1.00123.81	J
ATOM	17956	CG	LEU	J	240	6.983	114.545	191.074	1.00122.85	J
ATOM	17957	CD1	LEU	J	240	6.997	115.810	191.911	1.00120.85	J
ATOM	17958	CD2	LEU	J	240	5.567	114.024	190.897	1.00122.14	J
ATOM	17959	C	LEU	J	240	8.594	113.911	187.574	1.00125.23	J
ATOM	17960	O	LEU	J	240	7.969	113.935	186.517	1.00126.05	J
ATOM	17961	N	GLY	J	241	9.894	114.179	187.659	1.00125.20	J
ATOM	17962	CA	GLY	J	241	10.672	114.519	186.482	1.00124.89	J
ATOM	17963	C	GLY	J	241	10.178	115.715	185.694	1.00125.02	J
ATOM	17964	O	GLY	J	241	10.124	116.833	186.206	1.00124.61	J
ATOM	17965	N	ALA	J	242	9.821	115.473	184.437	1.00125.67	J
ATOM	17966	CA	ALA	J	242	9.335	116.523	183.550	1.00126.35	J
ATOM	17967	CB	ALA	J	242	8.955	115.926	182.199	1.00125.72	J
ATOM	17968	C	ALA	J	242	8.149	117.282	184.136	1.00126.97	J
ATOM	17969	O	ALA	J	242	7.002	116.843	184.022	1.00127.75	J
ATOM	17970	N	VAL	J	243	8.435	118.423	184.759	1.00126.86	J
ATOM	17971	CA	VAL	J	243	7.399	119.262	185.356	1.00126.78	J
ATOM	17972	CB	VAL	J	243	7.427	119.180	186.893	1.00123.95	J
ATOM	17973	CG1	VAL	J	243	6.267	119.972	187.472	1.00120.65	J
ATOM	17974	CG2	VAL	J	243	7.357	117.729	187.334	1.00122.11	J
ATOM	17975	C	VAL	J	243	7.586	120.722	184.936	1.00128.62	J
ATOM	17976	O	VAL	J	243	8.206	121.513	185.650	1.00128.71	J
ATOM	17977	N	GLY	J	244	7.042	121.067	183.770	1.00129.92	J
ATOM	17978	CA	GLY	J	244	7.160	122.421	183.260	1.00130.42	J
ATOM	17979	C	GLY	J	244	5.917	123.272	183.436	1.00130.72	J
ATOM	17980	O	GLY	J	244	5.474	123.508	184.561	1.00129.61	J
ATOM	17981	N	THR	J	245	5.353	123.731	182.320	1.00132.02	J
ATOM	17982	CA	THR	J	245	4.159	124.577	182.337	1.00133.15	J
ATOM	17983	CB	THR	J	245	4.121	125.515	181.108	1.00133.43	J
ATOM	17984	OG1	THR	J	245	4.109	124.735	179.906	1.00132.63	J
ATOM	17985	CG2	THR	J	245	5.334	126.435	181.103	1.00131.66	J
ATOM	17986	C	THR	J	245	2.851	123.784	182.373	1.00133.57	J
ATOM	17987	O	THR	J	245	1.814	124.307	182.786	1.00133.61	J
ATOM	17988	N	SER	J	246	2.903	122.530	181.934	1.00133.50	J
ATOM	17989	CA	SER	J	246	1.726	121.665	181.927	1.00132.45	J

ATOM	17990	CB	SER J 246	1.956	120.478	180.991	1.00131.31	J
ATOM	17991	OG	SER J 246	2.343	120.921	179.703	1.00131.40	J
ATOM	17992	C	SER J 246	1.453	121.157	183.340	1.00132.45	J
ATOM	17993	O	SER J 246	2.013	120.143	183.759	1.00132.32	J
ATOM	17994	N	ALA J 247	0.594	121.868	184.067	1.00132.37	J
ATOM	17995	CA	ALA J 247	0.245	121.512	185.441	1.00133.21	J
ATOM	17996	CB	ALA J 247	-0.985	122.295	185.880	1.00131.53	J
ATOM	17997	C	ALA J 247	-0.002	120.016	185.615	1.00134.60	J
ATOM	17998	O	ALA J 247	-1.118	119.538	185.410	1.00134.67	J
ATOM	17999	N	VAL J 248	1.042	119.286	186.003	1.00136.02	J
ATOM	18000	CA	VAL J 248	0.949	117.840	186.208	1.00136.57	J
ATOM	18001	CB	VAL J 248	2.356	117.175	186.195	1.00135.85	J
ATOM	18002	CG1	VAL J 248	2.217	115.662	186.289	1.00135.24	J
ATOM	18003	CG2	VAL J 248	3.113	117.562	184.928	1.00133.13	J
ATOM	18004	C	VAL J 248	0.266	117.528	187.542	1.00137.20	J
ATOM	18005	O	VAL J 248	0.571	118.149	188.562	1.00135.83	J
ATOM	18006	N	SER J 249	-0.659	116.570	187.526	1.00138.88	J
ATOM	18007	CA	SER J 249	-1.387	116.181	188.732	1.00140.42	J
ATOM	18008	CB	SER J 249	-2.853	115.874	188.397	1.00139.06	J
ATOM	18009	OG	SER J 249	-3.625	115.690	189.573	1.00134.37	J
ATOM	18010	C	SER J 249	-0.735	114.960	189.379	1.00142.60	J
ATOM	18011	O	SER J 249	0.008	114.222	188.725	1.00143.06	J
ATOM	18012	N	LEU J 250	-1.019	114.753	190.663	1.00143.89	J
ATOM	18013	CA	LEU J 250	-0.451	113.637	191.419	1.00144.19	J
ATOM	18014	CB	LEU J 250	-0.269	114.044	192.884	1.00143.11	J
ATOM	18015	CG	LEU J 250	0.728	115.170	193.166	1.00142.70	J
ATOM	18016	CD1	LEU J 250	0.632	115.596	194.619	1.00141.95	J
ATOM	18017	CD2	LEU J 250	2.134	114.700	192.835	1.00142.32	J
ATOM	18018	C	LEU J 250	-1.275	112.355	191.354	1.00144.89	J
ATOM	18019	O	LEU J 250	-0.727	111.256	191.420	1.00144.51	J
ATOM	18020	N	GLY J 251	-2.590	112.498	191.227	1.00145.91	J
ATOM	18021	CA	GLY J 251	-3.448	111.329	191.168	1.00146.65	J
ATOM	18022	C	GLY J 251	-3.602	110.727	192.551	1.00146.95	J
ATOM	18023	O	GLY J 251	-3.814	109.522	192.705	1.00147.02	J
ATOM	18024	N	LEU J 252	-3.492	111.581	193.562	1.00147.05	J
ATOM	18025	CA	LEU J 252	-3.610	111.156	194.947	1.00147.40	J
ATOM	18026	CB	LEU J 252	-3.182	112.293	195.872	1.00146.73	J
ATOM	18027	CG	LEU J 252	-1.846	112.955	195.532	1.00145.87	J
ATOM	18028	CD1	LEU J 252	-1.553	114.031	196.557	1.00146.09	J
ATOM	18029	CD2	LEU J 252	-0.732	111.918	195.507	1.00146.05	J
ATOM	18030	C	LEU J 252	-5.038	110.741	195.269	1.00148.27	J
ATOM	18031	O	LEU J 252	-5.987	111.475	194.989	1.00148.40	J
ATOM	18032	N	THR J 253	-5.185	109.559	195.858	1.00149.40	J
ATOM	18033	CA	THR J 253	-6.499	109.044	196.223	1.00150.34	J
ATOM	18034	CB	THR J 253	-6.833	107.767	195.434	1.00148.46	J
ATOM	18035	OG1	THR J 253	-6.483	107.949	194.056	1.00146.94	J
ATOM	18036	CG2	THR J 253	-8.316	107.463	195.534	1.00147.25	J
ATOM	18037	C	THR J 253	-6.535	108.721	197.714	1.00152.10	J
ATOM	18038	O	THR J 253	-6.422	107.560	198.105	1.00152.21	J
ATOM	18039	N	ALA J 254	-6.686	109.755	198.540	1.00153.91	J
ATOM	18040	CA	ALA J 254	-6.734	109.586	199.990	1.00155.97	J
ATOM	18041	CB	ALA J 254	-7.035	110.922	200.661	1.00154.46	J
ATOM	18042	C	ALA J 254	-7.794	108.558	200.370	1.00158.34	J
ATOM	18043	O	ALA J 254	-8.990	108.842	200.317	1.00158.95	J
ATOM	18044	N	ASN J 255	-7.347	107.365	200.754	1.00160.63	J
ATOM	18045	CA	ASN J 255	-8.257	106.286	201.135	1.00162.48	J
ATOM	18046	CB	ASN J 255	-7.948	105.020	200.323	1.00160.56	J
ATOM	18047	CG	ASN J 255	-8.217	105.192	198.836	1.00158.05	J

ATOM	18048	OD1	ASN	J	255	-8.012	104.271	198.046	1.00154.85	J
ATOM	18049	ND2	ASN	J	255	-8.682	106.374	198.450	1.00158.21	J
ATOM	18050	C	ASN	J	255	-8.188	105.964	202.627	1.00164.77	J
ATOM	18051	O	ASN	J	255	-7.316	106.461	203.343	1.00164.13	J
ATOM	18052	N	TYR	J	256	-9.119	105.127	203.082	1.00167.92	J
ATOM	18053	CA	TYR	J	256	-9.192	104.719	204.483	1.00170.45	J
ATOM	18054	CB	TYR	J	256	-10.567	104.108	204.786	1.00172.17	J
ATOM	18055	CG	TYR	J	256	-11.631	105.123	205.153	1.00173.81	J
ATOM	18056	CD1	TYR	J	256	-11.971	106.158	204.283	1.00174.16	J
ATOM	18057	CE1	TYR	J	256	-12.935	107.106	204.631	1.00174.63	J
ATOM	18058	CD2	TYR	J	256	-12.287	105.057	206.384	1.00174.21	J
ATOM	18059	CE2	TYR	J	256	-13.253	106.000	206.741	1.00174.77	J
ATOM	18060	CZ	TYR	J	256	-13.571	107.022	205.860	1.00174.80	J
ATOM	18061	OH	TYR	J	256	-14.514	107.963	206.211	1.00174.73	J
ATOM	18062	C	TYR	J	256	-8.096	103.727	204.864	1.00171.34	J
ATOM	18063	O	TYR	J	256	-7.812	102.783	204.124	1.00171.17	J
ATOM	18064	N	ALA	J	257	-7.493	103.946	206.030	1.00172.65	J
ATOM	18065	CA	ALA	J	257	-6.420	103.087	206.521	1.00173.95	J
ATOM	18066	CB	ALA	J	257	-5.154	103.910	206.734	1.00173.89	J
ATOM	18067	C	ALA	J	257	-6.794	102.366	207.814	1.00174.86	J
ATOM	18068	O	ALA	J	257	-6.663	102.918	208.907	1.00174.73	J
ATOM	18069	N	ARG	J	258	-7.257	101.127	207.675	1.00176.13	J
ATOM	18070	CA	ARG	J	258	-7.643	100.306	208.818	1.00177.35	J
ATOM	18071	CB	ARG	J	258	-8.624	99.222	208.360	1.00177.99	J
ATOM	18072	CG	ARG	J	258	-9.214	98.366	209.469	1.00178.56	J
ATOM	18073	CD	ARG	J	258	-10.296	97.448	208.914	1.00179.39	J
ATOM	18074	NE	ARG	J	258	-10.814	96.520	209.917	1.00180.82	J
ATOM	18075	CZ	ARG	J	258	-11.795	95.649	209.695	1.00181.14	J
ATOM	18076	NH1	ARG	J	258	-12.201	94.841	210.666	1.00180.59	J
ATOM	18077	NH2	ARG	J	258	-12.375	95.588	208.504	1.00181.16	J
ATOM	18078	C	ARG	J	258	-6.372	99.676	209.390	1.00178.02	J
ATOM	18079	O	ARG	J	258	-5.535	99.173	208.640	1.00178.11	J
ATOM	18080	N	THR	J	259	-6.228	99.706	210.713	1.00178.78	J
ATOM	18081	CA	THR	J	259	-5.037	99.159	211.361	1.00179.70	J
ATOM	18082	CB	THR	J	259	-4.533	100.106	212.471	1.00179.57	J
ATOM	18083	OG1	THR	J	259	-5.526	100.211	213.499	1.00178.56	J
ATOM	18084	CG2	THR	J	259	-4.252	101.489	211.903	1.00179.06	J
ATOM	18085	C	THR	J	259	-5.217	97.763	211.962	1.00180.58	J
ATOM	18086	O	THR	J	259	-5.330	96.775	211.235	1.00180.38	J
ATOM	18087	N	GLY	J	260	-5.227	97.691	213.291	1.00181.70	J
ATOM	18088	CA	GLY	J	260	-5.380	96.420	213.978	1.00182.73	J
ATOM	18089	C	GLY	J	260	-6.588	95.617	213.537	1.00183.54	J
ATOM	18090	O	GLY	J	260	-6.446	94.571	212.903	1.00184.11	J
ATOM	18091	N	GLY	J	261	-7.780	96.101	213.876	1.00183.84	J
ATOM	18092	CA	GLY	J	261	-8.996	95.403	213.498	1.00183.98	J
ATOM	18093	C	GLY	J	261	-10.240	96.253	213.670	1.00184.04	J
ATOM	18094	O	GLY	J	261	-11.008	96.447	212.728	1.00184.18	J
ATOM	18095	N	GLN	J	262	-10.438	96.760	214.882	1.00183.98	J
ATOM	18096	CA	GLN	J	262	-11.589	97.599	215.196	1.00184.29	J
ATOM	18097	CB	GLN	J	262	-11.523	98.030	216.665	1.00183.44	J
ATOM	18098	CG	GLN	J	262	-12.628	98.979	217.112	1.00182.63	J
ATOM	18099	CD	GLN	J	262	-13.997	98.325	217.154	1.00181.85	J
ATOM	18100	OE1	GLN	J	262	-14.989	98.965	217.501	1.00181.16	J
ATOM	18101	NE2	GLN	J	262	-14.057	97.047	216.803	1.00181.68	J
ATOM	18102	C	GLN	J	262	-11.642	98.835	214.297	1.00185.18	J
ATOM	18103	O	GLN	J	262	-10.612	99.305	213.814	1.00185.49	J
ATOM	18104	N	VAL	J	263	-12.850	99.345	214.068	1.00185.98	J
ATOM	18105	CA	VAL	J	263	-13.061	100.538	213.245	1.00186.22	J

ATOM	18106	CB	VAL	J	263	-13.439	100.166	211.786	1.00186.10	J
ATOM	18107	CG1	VAL	J	263	-13.480	101.418	210.921	1.00185.69	J
ATOM	18108	CG2	VAL	J	263	-12.443	99.167	211.223	1.00185.51	J
ATOM	18109	C	VAL	J	263	-14.203	101.347	213.871	1.00186.23	J
ATOM	18110	O	VAL	J	263	-15.211	101.636	213.223	1.00186.26	J
ATOM	18111	N	THR	J	264	-14.024	101.703	215.141	1.00185.95	J
ATOM	18112	CA	THR	J	264	-15.014	102.458	215.908	1.00185.29	J
ATOM	18113	CB	THR	J	264	-14.470	102.785	217.321	1.00184.82	J
ATOM	18114	OG1	THR	J	264	-13.821	101.628	217.862	1.00183.61	J
ATOM	18115	CG2	THR	J	264	-15.605	103.182	218.256	1.00184.35	J
ATOM	18116	C	THR	J	264	-15.436	103.761	215.224	1.00185.24	J
ATOM	18117	O	THR	J	264	-15.028	104.049	214.098	1.00185.00	J
ATOM	18118	N	ALA	J	265	-16.262	104.540	215.917	1.00185.32	J
ATOM	18119	CA	ALA	J	265	-16.756	105.810	215.400	1.00185.41	J
ATOM	18120	CB	ALA	J	265	-18.228	105.977	215.764	1.00185.27	J
ATOM	18121	C	ALA	J	265	-15.949	106.986	215.943	1.00185.42	J
ATOM	18122	O	ALA	J	265	-15.478	106.955	217.082	1.00185.34	J
ATOM	18123	N	GLY	J	266	-15.794	108.021	215.121	1.00185.11	J
ATOM	18124	CA	GLY	J	266	-15.047	109.195	215.535	1.00184.25	J
ATOM	18125	C	GLY	J	266	-14.764	110.148	214.388	1.00183.46	J
ATOM	18126	O	GLY	J	266	-15.661	110.481	213.612	1.00183.43	J
ATOM	18127	N	ASN	J	267	-13.513	110.587	214.278	1.00182.66	J
ATOM	18128	CA	ASN	J	267	-13.106	111.509	213.222	1.00181.41	J
ATOM	18129	CB	ASN	J	267	-12.609	112.826	213.828	1.00181.64	J
ATOM	18130	CG	ASN	J	267	-13.727	113.656	214.417	1.00181.65	J
ATOM	18131	OD1	ASN	J	267	-13.487	114.677	215.062	1.00181.90	J
ATOM	18132	ND2	ASN	J	267	-14.961	113.228	214.191	1.00181.64	J
ATOM	18133	C	ASN	J	267	-12.008	110.942	212.329	1.00180.27	J
ATOM	18134	O	ASN	J	267	-11.126	110.222	212.791	1.00180.50	J
ATOM	18135	N	VAL	J	268	-12.075	111.273	211.043	1.00178.87	J
ATOM	18136	CA	VAL	J	268	-11.075	110.838	210.068	1.00176.97	J
ATOM	18137	CB	VAL	J	268	-11.744	110.274	208.782	1.00176.62	J
ATOM	18138	CG1	VAL	J	268	-10.687	109.800	207.802	1.00175.61	J
ATOM	18139	CG2	VAL	J	268	-12.679	109.130	209.139	1.00175.62	J
ATOM	18140	C	VAL	J	268	-10.256	112.085	209.712	1.00175.74	J
ATOM	18141	O	VAL	J	268	-10.271	112.549	208.569	1.00175.49	J
ATOM	18142	N	GLN	J	269	-9.545	112.623	210.700	1.00174.40	J
ATOM	18143	CA	GLN	J	269	-8.748	113.830	210.511	1.00172.97	J
ATOM	18144	CB	GLN	J	269	-9.202	114.883	211.523	1.00171.15	J
ATOM	18145	CG	GLN	J	269	-10.720	115.076	211.574	1.00167.84	J
ATOM	18146	CD	GLN	J	269	-11.133	116.202	212.506	1.00166.01	J
ATOM	18147	OE1	GLN	J	269	-10.779	117.359	212.289	1.00165.52	J
ATOM	18148	NE2	GLN	J	269	-11.878	115.866	213.552	1.00164.67	J
ATOM	18149	C	GLN	J	269	-7.243	113.585	210.647	1.00172.85	J
ATOM	18150	O	GLN	J	269	-6.765	113.134	211.687	1.00173.07	J
ATOM	18151	N	SER	J	270	-6.505	113.891	209.584	1.00172.68	J
ATOM	18152	CA	SER	J	270	-5.057	113.719	209.564	1.00172.05	J
ATOM	18153	CB	SER	J	270	-4.686	112.428	208.823	1.00171.75	J
ATOM	18154	OG	SER	J	270	-3.280	112.279	208.713	1.00170.69	J
ATOM	18155	C	SER	J	270	-4.364	114.908	208.902	1.00171.45	J
ATOM	18156	O	SER	J	270	-5.002	115.709	208.214	1.00171.24	J
ATOM	18157	N	ILE	J	271	-3.055	115.014	209.116	1.00170.53	J
ATOM	18158	CA	ILE	J	271	-2.261	116.098	208.544	1.00168.55	J
ATOM	18159	CB	ILE	J	271	-1.871	117.158	209.614	1.00168.39	J
ATOM	18160	CG2	ILE	J	271	-1.086	118.285	208.961	1.00168.02	J
ATOM	18161	CG1	ILE	J	271	-3.123	117.731	210.288	1.00167.65	J
ATOM	18162	CD1	ILE	J	271	-3.748	116.832	211.341	1.00165.19	J
ATOM	18163	C	ILE	J	271	-0.978	115.542	207.914	1.00166.46	J

ATOM	18164	O	ILE	J	271	0.086	115.533	208.541	1.00166.52	J
ATOM	18165	N	ILE	J	272	-1.090	115.083	206.669	1.00163.43	J
ATOM	18166	CA	ILE	J	272	0.041	114.516	205.937	1.00159.99	J
ATOM	18167	CB	ILE	J	272	-0.443	113.473	204.901	1.00158.97	J
ATOM	18168	CG2	ILE	J	272	0.756	112.783	204.252	1.00158.51	J
ATOM	18169	CG1	ILE	J	272	-1.349	112.443	205.582	1.00157.87	J
ATOM	18170	CD1	ILE	J	272	-1.993	111.464	204.622	1.00156.90	J
ATOM	18171	C	ILE	J	272	0.837	115.598	205.204	1.00157.87	J
ATOM	18172	O	ILE	J	272	0.493	115.981	204.085	1.00158.37	J
ATOM	18173	N	GLY	J	273	1.905	116.077	205.836	1.00154.48	J
ATOM	18174	CA	GLY	J	273	2.725	117.110	205.226	1.00150.08	J
ATOM	18175	C	GLY	J	273	3.429	116.651	203.963	1.00146.13	J
ATOM	18176	O	GLY	J	273	4.590	116.251	204.003	1.00147.06	J
ATOM	18177	N	VAL	J	274	2.728	116.712	202.835	1.00141.24	J
ATOM	18178	CA	VAL	J	274	3.303	116.293	201.565	1.00136.80	J
ATOM	18179	CB	VAL	J	274	2.250	116.325	200.446	1.00136.56	J
ATOM	18180	CG1	VAL	J	274	2.863	115.843	199.144	1.00136.75	J
ATOM	18181	CG2	VAL	J	274	1.066	115.458	200.829	1.00136.24	J
ATOM	18182	C	VAL	J	274	4.472	117.191	201.174	1.00133.54	J
ATOM	18183	O	VAL	J	274	4.296	118.193	200.482	1.00133.65	J
ATOM	18184	N	THR	J	275	5.667	116.819	201.620	1.00129.83	J
ATOM	18185	CA	THR	J	275	6.873	117.584	201.335	1.00125.12	J
ATOM	18186	CB	THR	J	275	7.989	117.256	202.352	1.00122.17	J
ATOM	18187	OG1	THR	J	275	7.546	117.577	203.675	1.00118.13	J
ATOM	18188	CG2	THR	J	275	9.242	118.054	202.045	1.00121.39	J
ATOM	18189	C	THR	J	275	7.409	117.328	199.929	1.00124.02	J
ATOM	18190	O	THR	J	275	7.327	116.215	199.411	1.00122.55	J
ATOM	18191	N	PHE	J	276	7.953	118.379	199.322	1.00124.14	J
ATOM	18192	CA	PHE	J	276	8.530	118.308	197.983	1.00123.67	J
ATOM	18193	CB	PHE	J	276	7.953	119.409	197.094	1.00119.85	J
ATOM	18194	CG	PHE	J	276	6.565	119.132	196.597	1.00117.96	J
ATOM	18195	CD1	PHE	J	276	5.545	118.793	197.479	1.00117.17	J
ATOM	18196	CD2	PHE	J	276	6.275	119.228	195.239	1.00117.21	J
ATOM	18197	CE1	PHE	J	276	4.253	118.556	197.015	1.00116.52	J
ATOM	18198	CE2	PHE	J	276	4.989	118.994	194.763	1.00116.13	J
ATOM	18199	CZ	PHE	J	276	3.975	118.656	195.653	1.00116.81	J
ATOM	18200	C	PHE	J	276	10.045	118.488	198.074	1.00125.47	J
ATOM	18201	O	PHE	J	276	10.535	119.287	198.878	1.00127.22	J
ATOM	18202	N	VAL	J	277	10.781	117.746	197.251	1.00124.83	J
ATOM	18203	CA	VAL	J	277	12.238	117.835	197.236	1.00123.65	J
ATOM	18204	CB	VAL	J	277	12.893	116.451	197.481	1.00124.37	J
ATOM	18205	CG1	VAL	J	277	14.405	116.549	197.317	1.00124.34	J
ATOM	18206	CG2	VAL	J	277	12.556	115.956	198.880	1.00123.45	J
ATOM	18207	C	VAL	J	277	12.700	118.375	195.889	1.00122.51	J
ATOM	18208	O	VAL	J	277	12.269	117.900	194.836	1.00121.42	J
ATOM	18209	N	TYR	J	278	13.577	119.371	195.927	1.00121.98	J
ATOM	18210	CA	TYR	J	278	14.078	119.966	194.701	1.00122.27	J
ATOM	18211	CB	TYR	J	278	14.052	121.488	194.802	1.00122.26	J
ATOM	18212	CG	TYR	J	278	12.656	122.059	194.741	1.00120.99	J
ATOM	18213	CD1	TYR	J	278	11.818	122.037	195.858	1.00120.38	J
ATOM	18214	CE1	TYR	J	278	10.515	122.532	195.790	1.00120.11	J
ATOM	18215	CD2	TYR	J	278	12.158	122.590	193.554	1.00118.92	J
ATOM	18216	CE2	TYR	J	278	10.862	123.085	193.474	1.00119.39	J
ATOM	18217	CZ	TYR	J	278	10.043	123.054	194.592	1.00119.90	J
ATOM	18218	OH	TYR	J	278	8.753	123.540	194.502	1.00118.40	J
ATOM	18219	C	TYR	J	278	15.471	119.498	194.332	1.00122.15	J
ATOM	18220	O	TYR	J	278	16.346	119.372	195.187	1.00122.66	J
ATOM	18221	N	GLN	J	279	15.659	119.246	193.041	1.00122.49	J

ATOM	18222	CA	GLN	J	279	16.933	118.781	192.508	1.00123.50	J
ATOM	18223	CB	GLN	J	279	16.686	117.882	191.296	1.00124.34	J
ATOM	18224	CG	GLN	J	279	17.929	117.219	190.732	1.00124.61	J
ATOM	18225	CD	GLN	J	279	17.665	116.549	189.397	1.00125.43	J
ATOM	18226	OE1	GLN	J	279	18.529	115.860	188.853	1.00125.75	J
ATOM	18227	NE2	GLN	J	279	16.467	116.756	188.858	1.00125.28	J
ATOM	18228	C	GLN	J	279	17.819	119.954	192.101	1.00123.92	J
ATOM	18229	O	GLN	J	279	18.911	120.096	192.688	1.00124.59	J
ATOM	18230	OXT	GLN	J	279	17.412	120.716	191.199	1.00124.65	J
ATOM	18231	C	GLY	K	1	59.668	136.242	143.468	1.00142.61	K
ATOM	18232	O	GLY	K	1	60.271	135.701	142.542	1.00143.27	K
ATOM	18233	N	GLY	K	1	58.938	138.342	144.613	1.00141.39	K
ATOM	18234	CA	GLY	K	1	59.104	137.641	143.308	1.00142.21	K
ATOM	18235	N	VAL	K	2	59.473	135.654	144.645	1.00142.73	K
ATOM	18236	CA	VAL	K	2	59.964	134.308	144.934	1.00142.68	K
ATOM	18237	CB	VAL	K	2	59.664	133.920	146.407	1.00141.83	K
ATOM	18238	CG1	VAL	K	2	60.361	132.615	146.760	1.00141.69	K
ATOM	18239	CG2	VAL	K	2	60.110	135.038	147.341	1.00139.82	K
ATOM	18240	C	VAL	K	2	59.331	133.271	143.993	1.00143.70	K
ATOM	18241	O	VAL	K	2	58.225	133.473	143.484	1.00144.36	K
ATOM	18242	N	ALA	K	3	60.044	132.171	143.756	1.00143.96	K
ATOM	18243	CA	ALA	K	3	59.561	131.101	142.883	1.00144.60	K
ATOM	18244	CB	ALA	K	3	59.714	131.504	141.426	1.00143.73	K
ATOM	18245	C	ALA	K	3	60.313	129.796	143.147	1.00145.04	K
ATOM	18246	O	ALA	K	3	61.544	129.773	143.185	1.00144.60	K
ATOM	18247	N	LEU	K	4	59.567	128.708	143.320	1.00145.55	K
ATOM	18248	CA	LEU	K	4	60.166	127.408	143.595	1.00145.23	K
ATOM	18249	CB	LEU	K	4	59.119	126.444	144.156	1.00145.22	K
ATOM	18250	CG	LEU	K	4	58.564	126.774	145.548	1.00146.44	K
ATOM	18251	CD1	LEU	K	4	57.558	125.709	145.958	1.00148.37	K
ATOM	18252	CD2	LEU	K	4	59.698	126.845	146.561	1.00144.80	K
ATOM	18253	C	LEU	K	4	60.823	126.788	142.378	1.00145.05	K
ATOM	18254	O	LEU	K	4	60.358	126.950	141.255	1.00143.62	K
ATOM	18255	N	GLY	K	5	61.915	126.072	142.619	1.00146.16	K
ATOM	18256	CA	GLY	K	5	62.632	125.431	141.537	1.00147.85	K
ATOM	18257	C	GLY	K	5	61.852	124.290	140.917	1.00149.45	K
ATOM	18258	O	GLY	K	5	62.184	123.840	139.820	1.00149.61	K
ATOM	18259	N	ALA	K	6	60.814	123.819	141.606	1.00150.32	K
ATOM	18260	CA	ALA	K	6	60.016	122.715	141.086	1.00150.66	K
ATOM	18261	CB	ALA	K	6	60.463	121.407	141.723	1.00150.83	K
ATOM	18262	C	ALA	K	6	58.513	122.881	141.259	1.00150.58	K
ATOM	18263	O	ALA	K	6	58.041	123.580	142.156	1.00149.89	K
ATOM	18264	N	THR	K	7	57.772	122.210	140.385	1.00150.88	K
ATOM	18265	CA	THR	K	7	56.318	122.239	140.393	1.00150.83	K
ATOM	18266	CB	THR	K	7	55.772	122.192	138.951	1.00150.30	K
ATOM	18267	OG1	THR	K	7	56.286	121.034	138.278	1.00149.10	K
ATOM	18268	CG2	THR	K	7	56.196	123.435	138.189	1.00150.35	K
ATOM	18269	C	THR	K	7	55.767	121.048	141.174	1.00151.34	K
ATOM	18270	O	THR	K	7	54.566	120.966	141.443	1.00151.85	K
ATOM	18271	N	ARG	K	8	56.654	120.123	141.529	1.00151.29	K
ATOM	18272	CA	ARG	K	8	56.272	118.933	142.281	1.00151.12	K
ATOM	18273	CB	ARG	K	8	55.551	117.932	141.382	1.00149.87	K
ATOM	18274	CG	ARG	K	8	56.444	117.296	140.332	1.00148.00	K
ATOM	18275	CD	ARG	K	8	56.183	117.846	138.934	1.00148.09	K
ATOM	18276	NE	ARG	K	8	54.920	117.368	138.368	1.00146.29	K
ATOM	18277	CZ	ARG	K	8	53.723	117.870	138.654	1.00146.82	K
ATOM	18278	NH1	ARG	K	8	52.643	117.356	138.086	1.00147.14	K
ATOM	18279	NH2	ARG	K	8	53.602	118.894	139.492	1.00146.24	K

ATOM	18280	C	ARG	K	8	57.515	118.266	142.854	1.00152.20	K
ATOM	18281	O	ARG	K	8	58.627	118.492	142.373	1.00151.60	K
ATOM	18282	N	VAL	K	9	57.321	117.438	143.878	1.00154.22	K
ATOM	18283	CA	VAL	K	9	58.425	116.731	144.525	1.00154.80	K
ATOM	18284	CB	VAL	K	9	58.768	117.360	145.902	1.00153.38	K
ATOM	18285	CG1	VAL	K	9	60.000	116.691	146.491	1.00150.60	K
ATOM	18286	CG2	VAL	K	9	58.993	118.854	145.751	1.00152.19	K
ATOM	18287	C	VAL	K	9	58.083	115.251	144.740	1.00156.51	K
ATOM	18288	O	VAL	K	9	56.971	114.909	145.150	1.00156.61	K
ATOM	18289	N	ILE	K	10	59.046	114.380	144.453	1.00158.35	K
ATOM	18290	CA	ILE	K	10	58.870	112.939	144.627	1.00159.71	K
ATOM	18291	CB	ILE	K	10	59.281	112.161	143.356	1.00157.41	K
ATOM	18292	CG2	ILE	K	10	59.112	110.666	143.583	1.00156.43	K
ATOM	18293	CG1	ILE	K	10	58.428	112.611	142.168	1.00156.45	K
ATOM	18294	CD1	ILE	K	10	56.943	112.333	142.329	1.00155.52	K
ATOM	18295	C	ILE	K	10	59.765	112.503	145.782	1.00161.91	K
ATOM	18296	O	ILE	K	10	60.989	112.587	145.688	1.00162.26	K
ATOM	18297	N	TYR	K	11	59.153	112.045	146.871	1.00164.02	K
ATOM	18298	CA	TYR	K	11	59.915	111.617	148.038	1.00166.06	K
ATOM	18299	CB	TYR	K	11	59.215	112.049	149.328	1.00166.64	K
ATOM	18300	CG	TYR	K	11	60.163	112.144	150.495	1.00167.04	K
ATOM	18301	CD1	TYR	K	11	60.872	113.319	150.739	1.00167.39	K
ATOM	18302	CE1	TYR	K	11	61.806	113.400	151.763	1.00167.63	K
ATOM	18303	CD2	TYR	K	11	60.408	111.043	151.313	1.00167.03	K
ATOM	18304	CE2	TYR	K	11	61.344	111.110	152.343	1.00167.52	K
ATOM	18305	CZ	TYR	K	11	62.040	112.294	152.561	1.00167.39	K
ATOM	18306	OH	TYR	K	11	62.978	112.378	153.565	1.00167.15	K
ATOM	18307	C	TYR	K	11	60.116	110.106	148.066	1.00167.12	K
ATOM	18308	O	TYR	K	11	59.262	109.367	148.560	1.00166.73	K
ATOM	18309	N	PRO	K	12	61.255	109.626	147.542	1.00168.30	K
ATOM	18310	CD	PRO	K	12	62.376	110.368	146.938	1.00169.06	K
ATOM	18311	CA	PRO	K	12	61.521	108.185	147.534	1.00168.74	K
ATOM	18312	CB	PRO	K	12	62.928	108.095	146.941	1.00168.97	K
ATOM	18313	CG	PRO	K	12	63.016	109.316	146.075	1.00168.88	K
ATOM	18314	C	PRO	K	12	61.454	107.625	148.951	1.00168.93	K
ATOM	18315	O	PRO	K	12	62.082	108.159	149.865	1.00169.18	K
ATOM	18316	N	ALA	K	13	60.677	106.562	149.132	1.00168.82	K
ATOM	18317	CA	ALA	K	13	60.545	105.940	150.442	1.00168.51	K
ATOM	18318	CB	ALA	K	13	59.531	104.807	150.386	1.00167.98	K
ATOM	18319	C	ALA	K	13	61.911	105.411	150.859	1.00168.63	K
ATOM	18320	O	ALA	K	13	62.490	104.559	150.184	1.00167.85	K
ATOM	18321	N	GLY	K	14	62.422	105.929	151.971	1.00169.32	K
ATOM	18322	CA	GLY	K	14	63.724	105.509	152.453	1.00170.34	K
ATOM	18323	C	GLY	K	14	64.698	106.671	152.480	1.00171.43	K
ATOM	18324	O	GLY	K	14	65.605	106.711	153.311	1.00172.09	K
ATOM	18325	N	GLN	K	15	64.510	107.620	151.566	1.00171.87	K
ATOM	18326	CA	GLN	K	15	65.373	108.796	151.480	1.00172.37	K
ATOM	18327	CB	GLN	K	15	64.895	109.726	150.363	1.00172.28	K
ATOM	18328	CG	GLN	K	15	65.074	109.164	148.967	1.00172.30	K
ATOM	18329	CD	GLN	K	15	66.518	109.165	148.513	1.00172.69	K
ATOM	18330	OE1	GLN	K	15	67.400	108.647	149.198	1.00171.64	K
ATOM	18331	NE2	GLN	K	15	66.768	109.750	147.346	1.00173.38	K
ATOM	18332	C	GLN	K	15	65.373	109.558	152.798	1.00172.82	K
ATOM	18333	O	GLN	K	15	64.317	109.833	153.369	1.00173.14	K
ATOM	18334	N	LYS	K	16	66.563	109.895	153.281	1.00172.73	K
ATOM	18335	CA	LYS	K	16	66.692	110.630	154.530	1.00172.10	K
ATOM	18336	CB	LYS	K	16	68.162	110.723	154.938	1.00172.21	K
ATOM	18337	CG	LYS	K	16	68.391	111.274	156.337	1.00172.00	K

ATOM	18338	CD	LYS	K	16	69.875	111.504	156.604	1.00172.32	K
ATOM	18339	CE	LYS	K	16	70.707	110.257	156.301	1.00172.61	K
ATOM	18340	NZ	LYS	K	16	70.249	109.063	157.078	1.00172.57	K
ATOM	18341	C	LYS	K	16	66.123	112.031	154.346	1.00171.51	K
ATOM	18342	O	LYS	K	16	65.509	112.587	155.259	1.00171.75	K
ATOM	18343	N	GLN	K	17	66.322	112.590	153.155	1.00170.13	K
ATOM	18344	CA	GLN	K	17	65.842	113.932	152.855	1.00169.17	K
ATOM	18345	CB	GLN	K	17	66.657	114.961	153.642	1.00168.92	K
ATOM	18346	CG	GLN	K	17	68.159	114.865	153.404	1.00167.59	K
ATOM	18347	CD	GLN	K	17	68.899	116.136	153.777	1.00167.27	K
ATOM	18348	OE1	GLN	K	17	68.811	116.615	154.909	1.00167.28	K
ATOM	18349	NE2	GLN	K	17	69.638	116.690	152.821	1.00166.45	K
ATOM	18350	C	GLN	K	17	65.907	114.290	151.372	1.00168.61	K
ATOM	18351	O	GLN	K	17	66.837	113.898	150.667	1.00168.96	K
ATOM	18352	N	VAL	K	18	64.906	115.039	150.914	1.00167.45	K
ATOM	18353	CA	VAL	K	18	64.828	115.507	149.530	1.00165.77	K
ATOM	18354	CB	VAL	K	18	63.500	115.085	148.861	1.00164.57	K
ATOM	18355	CG1	VAL	K	18	63.372	115.734	147.493	1.00163.46	K
ATOM	18356	CG2	VAL	K	18	63.450	113.574	148.727	1.00163.92	K
ATOM	18357	C	VAL	K	18	64.889	117.032	149.608	1.00165.65	K
ATOM	18358	O	VAL	K	18	64.256	117.630	150.477	1.00165.71	K
ATOM	18359	N	GLN	K	19	65.648	117.665	148.718	1.00165.31	K
ATOM	18360	CA	GLN	K	19	65.769	119.120	148.759	1.00164.89	K
ATOM	18361	CB	GLN	K	19	67.214	119.518	149.086	1.00164.95	K
ATOM	18362	CG	GLN	K	19	68.254	119.062	148.079	1.00164.89	K
ATOM	18363	CD	GLN	K	19	69.674	119.354	148.540	1.00164.47	K
ATOM	18364	OE1	GLN	K	19	70.122	118.837	149.565	1.00163.70	K
ATOM	18365	NE2	GLN	K	19	70.387	120.185	147.784	1.00162.72	K
ATOM	18366	C	GLN	K	19	65.302	119.864	147.511	1.00164.51	K
ATOM	18367	O	GLN	K	19	65.597	119.472	146.381	1.00164.38	K
ATOM	18368	N	LEU	K	20	64.571	120.952	147.745	1.00164.06	K
ATOM	18369	CA	LEU	K	20	64.035	121.795	146.683	1.00163.85	K
ATOM	18370	CB	LEU	K	20	62.551	122.080	146.953	1.00164.90	K
ATOM	18371	CG	LEU	K	20	61.719	122.830	145.903	1.00165.17	K
ATOM	18372	CD1	LEU	K	20	61.726	122.061	144.597	1.00165.03	K
ATOM	18373	CD2	LEU	K	20	60.291	123.001	146.406	1.00165.66	K
ATOM	18374	C	LEU	K	20	64.828	123.104	146.634	1.00163.47	K
ATOM	18375	O	LEU	K	20	65.603	123.398	147.545	1.00162.48	K
ATOM	18376	N	ALA	K	21	64.628	123.887	145.576	1.00163.49	K
ATOM	18377	CA	ALA	K	21	65.344	125.150	145.410	1.00163.08	K
ATOM	18378	CB	ALA	K	21	66.108	125.138	144.089	1.00163.42	K
ATOM	18379	C	ALA	K	21	64.441	126.379	145.472	1.00162.52	K
ATOM	18380	O	ALA	K	21	63.397	126.429	144.821	1.00162.67	K
ATOM	18381	N	VAL	K	22	64.861	127.374	146.251	1.00161.83	K
ATOM	18382	CA	VAL	K	22	64.103	128.615	146.408	1.00161.53	K
ATOM	18383	CB	VAL	K	22	63.823	128.923	147.891	1.00160.95	K
ATOM	18384	CG1	VAL	K	22	62.597	129.815	148.010	1.00160.17	K
ATOM	18385	CG2	VAL	K	22	63.639	127.637	148.665	1.00159.81	K
ATOM	18386	C	VAL	K	22	64.896	129.784	145.834	1.00161.80	K
ATOM	18387	O	VAL	K	22	66.052	129.991	146.200	1.00162.12	K
ATOM	18388	N	THR	K	23	64.273	130.560	144.953	1.00161.62	K
ATOM	18389	CA	THR	K	23	64.951	131.695	144.336	1.00160.92	K
ATOM	18390	CB	THR	K	23	65.279	131.393	142.855	1.00160.04	K
ATOM	18391	OG1	THR	K	23	65.737	132.587	142.212	1.00160.96	K
ATOM	18392	CG2	THR	K	23	64.053	130.864	142.125	1.00158.48	K
ATOM	18393	C	THR	K	23	64.157	133.000	144.413	1.00161.11	K
ATOM	18394	O	THR	K	23	63.072	133.110	143.849	1.00161.78	K
ATOM	18395	N	ASN	K	24	64.708	133.987	145.114	1.00161.47	K

ATOM	18396	CA	ASN	K	24	64.056	135.285	145.258	1.00162.34	K
ATOM	18397	CB	ASN	K	24	64.409	135.907	146.615	1.00163.83	K
ATOM	18398	CG	ASN	K	24	63.866	137.320	146.773	1.00165.10	K
ATOM	18399	OD1	ASN	K	24	62.825	137.663	146.213	1.00166.79	K
ATOM	18400	ND2	ASN	K	24	64.561	138.138	147.557	1.00165.25	K
ATOM	18401	C	ASN	K	24	64.466	136.227	144.131	1.00162.31	K
ATOM	18402	O	ASN	K	24	65.612	136.669	144.065	1.00162.42	K
ATOM	18403	N	ASN	K	25	63.518	136.529	143.249	1.00162.66	K
ATOM	18404	CA	ASN	K	25	63.769	137.410	142.112	1.00163.52	K
ATOM	18405	CB	ASN	K	25	62.652	137.269	141.074	1.00161.18	K
ATOM	18406	CG	ASN	K	25	62.869	136.091	140.141	1.00158.53	K
ATOM	18407	OD1	ASN	K	25	63.025	134.950	140.581	1.00156.89	K
ATOM	18408	ND2	ASN	K	25	62.877	136.363	138.842	1.00156.24	K
ATOM	18409	C	ASN	K	25	63.932	138.877	142.473	1.00165.09	K
ATOM	18410	O	ASN	K	25	64.965	139.474	142.189	1.00165.34	K
ATOM	18411	N	ASP	K	26	62.908	139.459	143.085	1.00167.86	K
ATOM	18412	CA	ASP	K	26	62.951	140.862	143.469	1.00171.44	K
ATOM	18413	CB	ASP	K	26	61.888	141.146	144.528	1.00173.62	K
ATOM	18414	CG	ASP	K	26	60.477	140.963	143.995	1.00176.05	K
ATOM	18415	OD1	ASP	K	26	59.512	141.175	144.765	1.00177.40	K
ATOM	18416	OD2	ASP	K	26	60.338	140.607	142.802	1.00176.71	K
ATOM	18417	C	ASP	K	26	64.326	141.261	143.984	1.00173.21	K
ATOM	18418	O	ASP	K	26	64.675	141.011	145.137	1.00173.06	K
ATOM	18419	N	GLU	K	27	65.100	141.886	143.103	1.00175.15	K
ATOM	18420	CA	GLU	K	27	66.453	142.334	143.407	1.00176.82	K
ATOM	18421	CB	GLU	K	27	66.964	143.221	142.274	1.00176.59	K
ATOM	18422	CG	GLU	K	27	67.108	142.484	140.954	1.00178.39	K
ATOM	18423	CD	GLU	K	27	67.263	143.409	139.763	1.00179.58	K
ATOM	18424	OE1	GLU	K	27	68.127	144.314	139.811	1.00180.01	K
ATOM	18425	OE2	GLU	K	27	66.519	143.218	138.775	1.00180.21	K
ATOM	18426	C	GLU	K	27	66.576	143.080	144.727	1.00178.36	K
ATOM	18427	O	GLU	K	27	67.673	143.207	145.269	1.00179.10	K
ATOM	18428	N	ASN	K	28	65.460	143.574	145.248	1.00179.72	K
ATOM	18429	CA	ASN	K	28	65.505	144.308	146.500	1.00181.02	K
ATOM	18430	CB	ASN	K	28	65.842	145.779	146.210	1.00182.33	K
ATOM	18431	CG	ASN	K	28	65.090	146.335	144.991	1.00182.82	K
ATOM	18432	OD1	ASN	K	28	65.397	147.427	144.495	1.00182.91	K
ATOM	18433	ND2	ASN	K	28	64.096	145.587	144.517	1.00182.42	K
ATOM	18434	C	ASN	K	28	64.228	144.193	147.327	1.00181.52	K
ATOM	18435	O	ASN	K	28	63.214	144.817	147.016	1.00181.16	K
ATOM	18436	N	SER	K	29	64.305	143.391	148.387	1.00182.56	K
ATOM	18437	CA	SER	K	29	63.197	143.153	149.309	1.00183.61	K
ATOM	18438	CB	SER	K	29	61.860	143.095	148.561	1.00184.62	K
ATOM	18439	OG	SER	K	29	61.869	142.084	147.565	1.00186.24	K
ATOM	18440	C	SER	K	29	63.443	141.826	150.011	1.00183.52	K
ATOM	18441	O	SER	K	29	63.545	140.786	149.363	1.00184.01	K
ATOM	18442	N	THR	K	30	63.551	141.865	151.334	1.00182.93	K
ATOM	18443	CA	THR	K	30	63.790	140.653	152.107	1.00182.73	K
ATOM	18444	CB	THR	K	30	64.429	140.989	153.463	1.00181.30	K
ATOM	18445	OG1	THR	K	30	65.572	141.826	153.252	1.00180.34	K
ATOM	18446	CG2	THR	K	30	64.879	139.722	154.172	1.00180.42	K
ATOM	18447	C	THR	K	30	62.479	139.907	152.341	1.00184.01	K
ATOM	18448	O	THR	K	30	61.419	140.524	152.449	1.00184.73	K
ATOM	18449	N	TYR	K	31	62.557	138.580	152.418	1.00184.73	K
ATOM	18450	CA	TYR	K	31	61.378	137.739	152.632	1.00184.94	K
ATOM	18451	CB	TYR	K	31	60.945	137.093	151.312	1.00184.41	K
ATOM	18452	CG	TYR	K	31	60.294	138.044	150.342	1.00184.70	K
ATOM	18453	CD1	TYR	K	31	60.799	138.208	149.052	1.00184.71	K

ATOM	18454	CE1	TYR	K	31	60.192	139.079	148.151	1.00185.88	K
ATOM	18455	CD2	TYR	K	31	59.163	138.774	150.711	1.00185.48	K
ATOM	18456	CE2	TYR	K	31	58.547	139.644	149.821	1.00186.54	K
ATOM	18457	CZ	TYR	K	31	59.063	139.794	148.542	1.00186.72	K
ATOM	18458	OH	TYR	K	31	58.444	140.651	147.658	1.00186.92	K
ATOM	18459	C	TYR	K	31	61.610	136.633	153.663	1.00185.36	K
ATOM	18460	O	TYR	K	31	62.694	136.048	153.731	1.00185.72	K
ATOM	18461	N	LEU	K	32	60.584	136.354	154.463	1.00185.43	K
ATOM	18462	CA	LEU	K	32	60.656	135.304	155.473	1.00185.71	K
ATOM	18463	CB	LEU	K	32	59.901	135.712	156.742	1.00184.65	K
ATOM	18464	CG	LEU	K	32	60.647	136.552	157.778	1.00183.88	K
ATOM	18465	CD1	LEU	K	32	59.703	136.909	158.912	1.00182.77	K
ATOM	18466	CD2	LEU	K	32	61.842	135.772	158.306	1.00183.93	K
ATOM	18467	C	LEU	K	32	60.046	134.027	154.914	1.00186.41	K
ATOM	18468	O	LEU	K	32	58.826	133.854	154.925	1.00186.64	K
ATOM	18469	N	ILE	K	33	60.900	133.137	154.421	1.00187.07	K
ATOM	18470	CA	ILE	K	33	60.440	131.877	153.855	1.00187.31	K
ATOM	18471	CB	ILE	K	33	61.561	131.182	153.051	1.00186.73	K
ATOM	18472	CG2	ILE	K	33	61.020	129.926	152.381	1.00186.54	K
ATOM	18473	CG1	ILE	K	33	62.124	132.142	151.998	1.00186.55	K
ATOM	18474	CD1	ILE	K	33	61.106	132.610	150.979	1.00186.27	K
ATOM	18475	C	ILE	K	33	59.976	130.941	154.962	1.00187.73	K
ATOM	18476	O	ILE	K	33	60.755	130.555	155.832	1.00187.90	K
ATOM	18477	N	GLN	K	34	58.698	130.588	154.927	1.00188.38	K
ATOM	18478	CA	GLN	K	34	58.131	129.694	155.925	1.00189.21	K
ATOM	18479	CB	GLN	K	34	57.101	130.445	156.771	1.00190.52	K
ATOM	18480	CG	GLN	K	34	56.673	129.714	158.030	1.00191.57	K
ATOM	18481	CD	GLN	K	34	55.775	130.557	158.914	1.00191.89	K
ATOM	18482	OE1	GLN	K	34	54.683	130.959	158.510	1.00191.75	K
ATOM	18483	NE2	GLN	K	34	56.234	130.832	160.130	1.00191.79	K
ATOM	18484	C	GLN	K	34	57.479	128.530	155.191	1.00189.11	K
ATOM	18485	O	GLN	K	34	56.471	128.704	154.506	1.00189.35	K
ATOM	18486	N	SER	K	35	58.065	127.345	155.329	1.00188.83	K
ATOM	18487	CA	SER	K	35	57.552	126.154	154.661	1.00188.27	K
ATOM	18488	CB	SER	K	35	58.678	125.472	153.875	1.00188.11	K
ATOM	18489	OG	SER	K	35	59.236	126.350	152.911	1.00186.67	K
ATOM	18490	C	SER	K	35	56.922	125.152	155.627	1.00187.70	K
ATOM	18491	O	SER	K	35	57.079	125.257	156.845	1.00187.76	K
ATOM	18492	N	TRP	K	36	56.204	124.182	155.066	1.00186.38	K
ATOM	18493	CA	TRP	K	36	55.549	123.145	155.855	1.00184.57	K
ATOM	18494	CB	TRP	K	36	54.546	123.771	156.834	1.00186.20	K
ATOM	18495	CG	TRP	K	36	53.288	124.278	156.194	1.00187.83	K
ATOM	18496	CD2	TRP	K	36	52.998	125.629	155.819	1.00188.69	K
ATOM	18497	CE2	TRP	K	36	51.716	125.631	155.224	1.00189.30	K
ATOM	18498	CE3	TRP	K	36	53.697	126.840	155.928	1.00188.72	K
ATOM	18499	CD1	TRP	K	36	52.201	123.537	155.823	1.00188.22	K
ATOM	18500	NE1	TRP	K	36	51.253	124.342	155.239	1.00189.03	K
ATOM	18501	CZ2	TRP	K	36	51.118	126.797	154.736	1.00189.90	K
ATOM	18502	CZ3	TRP	K	36	53.099	128.004	155.440	1.00189.81	K
ATOM	18503	CH2	TRP	K	36	51.822	127.970	154.853	1.00190.00	K
ATOM	18504	C	TRP	K	36	54.841	122.171	154.915	1.00182.37	K
ATOM	18505	O	TRP	K	36	54.501	122.527	153.783	1.00181.50	K
ATOM	18506	N	VAL	K	37	54.624	120.946	155.386	1.00180.48	K
ATOM	18507	CA	VAL	K	37	53.968	119.921	154.580	1.00178.58	K
ATOM	18508	CB	VAL	K	37	54.914	118.733	154.304	1.00177.62	K
ATOM	18509	CG1	VAL	K	37	54.186	117.660	153.505	1.00176.58	K
ATOM	18510	CG2	VAL	K	37	56.133	119.216	153.544	1.00177.05	K
ATOM	18511	C	VAL	K	37	52.682	119.372	155.190	1.00177.87	K

ATOM	18512	O	VAL	K	37	52.694	118.721	156.237	1.00177.61	K
ATOM	18513	N	GLU	K	38	51.574	119.638	154.509	1.00177.26	K
ATOM	18514	CA	GLU	K	38	50.262	119.172	154.933	1.00175.95	K
ATOM	18515	CB	GLU	K	38	49.194	120.191	154.526	1.00176.77	K
ATOM	18516	CG	GLU	K	38	49.342	121.557	155.188	1.00176.11	K
ATOM	18517	CD	GLU	K	38	48.534	122.634	154.486	1.00176.03	K
ATOM	18518	OE1	GLU	K	38	47.349	122.387	154.184	1.00176.49	K
ATOM	18519	OE2	GLU	K	38	49.079	123.730	154.239	1.00175.31	K
ATOM	18520	C	GLU	K	38	50.013	117.845	154.219	1.00174.41	K
ATOM	18521	O	GLU	K	38	50.682	117.531	153.231	1.00173.74	K
ATOM	18522	N	ASN	K	39	49.060	117.063	154.714	1.00172.56	K
ATOM	18523	CA	ASN	K	39	48.758	115.785	154.085	1.00170.14	K
ATOM	18524	CB	ASN	K	39	48.327	114.747	155.128	1.00169.24	K
ATOM	18525	CG	ASN	K	39	47.061	115.141	155.862	1.00168.01	K
ATOM	18526	OD1	ASN	K	39	46.059	115.499	155.246	1.00167.37	K
ATOM	18527	ND2	ASN	K	39	47.097	115.058	157.187	1.00167.71	K
ATOM	18528	C	ASN	K	39	47.669	115.933	153.029	1.00168.81	K
ATOM	18529	O	ASN	K	39	47.285	117.045	152.660	1.00168.19	K
ATOM	18530	N	ALA	K	40	47.179	114.796	152.547	1.00167.77	K
ATOM	18531	CA	ALA	K	40	46.142	114.772	151.526	1.00166.98	K
ATOM	18532	CB	ALA	K	40	45.718	113.333	151.258	1.00166.34	K
ATOM	18533	C	ALA	K	40	44.934	115.613	151.930	1.00166.81	K
ATOM	18534	O	ALA	K	40	44.399	116.369	151.119	1.00166.16	K
ATOM	18535	N	ASP	K	41	44.511	115.479	153.184	1.00167.48	K
ATOM	18536	CA	ASP	K	41	43.366	116.226	153.699	1.00167.89	K
ATOM	18537	CB	ASP	K	41	42.760	115.512	154.915	1.00169.36	K
ATOM	18538	CG	ASP	K	41	42.207	114.137	154.576	1.00170.59	K
ATOM	18539	OD1	ASP	K	41	41.327	114.047	153.690	1.00170.30	K
ATOM	18540	OD2	ASP	K	41	42.648	113.147	155.200	1.00171.33	K
ATOM	18541	C	ASP	K	41	43.765	117.643	154.097	1.00167.37	K
ATOM	18542	O	ASP	K	41	43.114	118.270	154.935	1.00166.70	K
ATOM	18543	N	GLY	K	42	44.844	118.141	153.502	1.00167.24	K
ATOM	18544	CA	GLY	K	42	45.301	119.486	153.806	1.00167.11	K
ATOM	18545	C	GLY	K	42	45.667	119.720	155.259	1.00167.27	K
ATOM	18546	O	GLY	K	42	46.191	120.773	155.607	1.00167.37	K
ATOM	18547	N	VAL	K	43	45.389	118.745	156.115	1.00167.65	K
ATOM	18548	CA	VAL	K	43	45.704	118.872	157.534	1.00168.13	K
ATOM	18549	CB	VAL	K	43	44.933	117.808	158.375	1.00168.01	K
ATOM	18550	CG1	VAL	K	43	44.663	116.572	157.533	1.00167.79	K
ATOM	18551	CG2	VAL	K	43	45.735	117.423	159.619	1.00167.91	K
ATOM	18552	C	VAL	K	43	47.204	118.740	157.797	1.00168.46	K
ATOM	18553	O	VAL	K	43	47.823	117.748	157.417	1.00167.60	K
ATOM	18554	N	LYS	K	44	47.784	119.747	158.444	1.00169.58	K
ATOM	18555	CA	LYS	K	44	49.205	119.713	158.761	1.00170.74	K
ATOM	18556	CB	LYS	K	44	49.681	121.033	159.371	1.00170.30	K
ATOM	18557	CG	LYS	K	44	49.475	122.276	158.529	1.00170.18	K
ATOM	18558	CD	LYS	K	44	48.125	122.910	158.806	1.00168.93	K
ATOM	18559	CE	LYS	K	44	48.071	124.329	158.288	1.00169.06	K
ATOM	18560	NZ	LYS	K	44	49.085	125.191	158.944	1.00169.57	K
ATOM	18561	C	LYS	K	44	49.479	118.608	159.767	1.00171.55	K
ATOM	18562	O	LYS	K	44	48.765	118.462	160.763	1.00170.76	K
ATOM	18563	N	ASP	K	45	50.533	117.846	159.507	1.00173.15	K
ATOM	18564	CA	ASP	K	45	50.926	116.749	160.377	1.00174.78	K
ATOM	18565	CB	ASP	K	45	50.334	115.425	159.892	1.00174.93	K
ATOM	18566	CG	ASP	K	45	50.487	115.217	158.392	1.00175.09	K
ATOM	18567	OD1	ASP	K	45	51.448	115.738	157.796	1.00174.16	K
ATOM	18568	OD2	ASP	K	45	49.658	114.496	157.802	1.00175.95	K
ATOM	18569	C	ASP	K	45	52.436	116.644	160.416	1.00175.95	K

ATOM	18570	O	ASP	K	45	53.129	117.268	159.616	1.00176.41	K
ATOM	18571	N	GLY	K	46	52.949	115.865	161.359	1.00176.85	K
ATOM	18572	CA	GLY	K	46	54.386	115.716	161.471	1.00177.67	K
ATOM	18573	C	GLY	K	46	54.974	114.907	160.329	1.00178.30	K
ATOM	18574	O	GLY	K	46	56.193	114.884	160.154	1.00178.20	K
ATOM	18575	N	ARG	K	47	54.111	114.246	159.556	1.00178.97	K
ATOM	18576	CA	ARG	K	47	54.527	113.418	158.421	1.00179.13	K
ATOM	18577	CB	ARG	K	47	53.370	113.266	157.429	1.00179.33	K
ATOM	18578	CG	ARG	K	47	52.611	111.959	157.584	1.00179.54	K
ATOM	18579	CD	ARG	K	47	51.877	111.881	158.917	1.00179.57	K
ATOM	18580	NE	ARG	K	47	51.485	110.512	159.242	1.00179.93	K
ATOM	18581	CZ	ARG	K	47	52.333	109.567	159.641	1.00179.97	K
ATOM	18582	NH1	ARG	K	47	53.625	109.843	159.771	1.00179.21	K
ATOM	18583	NH2	ARG	K	47	51.894	108.342	159.900	1.00179.38	K
ATOM	18584	C	ARG	K	47	55.779	113.879	157.671	1.00178.74	K
ATOM	18585	O	ARG	K	47	56.721	113.104	157.504	1.00178.82	K
ATOM	18586	N	PHE	K	48	55.786	115.123	157.197	1.00177.94	K
ATOM	18587	CA	PHE	K	48	56.949	115.650	156.483	1.00176.72	K
ATOM	18588	CB	PHE	K	48	56.653	115.802	154.986	1.00176.28	K
ATOM	18589	CG	PHE	K	48	56.635	114.499	154.231	1.00175.80	K
ATOM	18590	CD1	PHE	K	48	55.496	113.701	154.213	1.00175.50	K
ATOM	18591	CD2	PHE	K	48	57.767	114.068	153.540	1.00175.07	K
ATOM	18592	CE1	PHE	K	48	55.485	112.491	153.517	1.00174.71	K
ATOM	18593	CE2	PHE	K	48	57.766	112.863	152.844	1.00173.66	K
ATOM	18594	CZ	PHE	K	48	56.623	112.073	152.830	1.00173.51	K
ATOM	18595	C	PHE	K	48	57.400	116.992	157.053	1.00175.77	K
ATOM	18596	O	PHE	K	48	56.591	117.905	157.227	1.00176.15	K
ATOM	18597	N	ILE	K	49	58.696	117.105	157.337	1.00173.92	K
ATOM	18598	CA	ILE	K	49	59.257	118.328	157.900	1.00172.36	K
ATOM	18599	CB	ILE	K	49	59.893	118.055	159.278	1.00170.77	K
ATOM	18600	CG2	ILE	K	49	60.437	119.351	159.867	1.00170.40	K
ATOM	18601	CG1	ILE	K	49	58.847	117.441	160.214	1.00168.96	K
ATOM	18602	CD1	ILE	K	49	59.379	117.060	161.574	1.00166.40	K
ATOM	18603	C	ILE	K	49	60.310	118.962	156.996	1.00172.18	K
ATOM	18604	O	ILE	K	49	61.350	118.365	156.733	1.00172.06	K
ATOM	18605	N	VAL	K	50	60.031	120.176	156.528	1.00172.39	K
ATOM	18606	CA	VAL	K	50	60.951	120.905	155.657	1.00172.57	K
ATOM	18607	CB	VAL	K	50	60.189	121.869	154.718	1.00171.92	K
ATOM	18608	CG1	VAL	K	50	61.165	122.625	153.831	1.00170.26	K
ATOM	18609	CG2	VAL	K	50	59.201	121.088	153.872	1.00171.76	K
ATOM	18610	C	VAL	K	50	61.932	121.710	156.500	1.00173.46	K
ATOM	18611	O	VAL	K	50	61.631	122.064	157.643	1.00174.36	K
ATOM	18612	N	THR	K	51	63.102	121.998	155.934	1.00173.63	K
ATOM	18613	CA	THR	K	51	64.136	122.755	156.638	1.00174.08	K
ATOM	18614	CB	THR	K	51	65.063	121.809	157.432	1.00173.44	K
ATOM	18615	OG1	THR	K	51	65.577	120.797	156.558	1.00173.86	K
ATOM	18616	CG2	THR	K	51	64.304	121.145	158.572	1.00172.84	K
ATOM	18617	C	THR	K	51	64.999	123.593	155.687	1.00174.31	K
ATOM	18618	O	THR	K	51	65.349	123.144	154.597	1.00174.19	K
ATOM	18619	N	PRO	K	52	65.351	124.828	156.091	1.00174.75	K
ATOM	18620	CD	PRO	K	52	66.329	125.642	155.347	1.00174.35	K
ATOM	18621	CA	PRO	K	52	64.994	125.477	157.360	1.00175.20	K
ATOM	18622	CB	PRO	K	52	65.977	126.645	157.439	1.00175.33	K
ATOM	18623	CG	PRO	K	52	66.201	126.986	156.010	1.00174.83	K
ATOM	18624	C	PRO	K	52	63.527	125.925	157.416	1.00175.03	K
ATOM	18625	O	PRO	K	52	62.965	126.375	156.415	1.00175.21	K
ATOM	18626	N	PRO	K	53	62.893	125.802	158.596	1.00174.21	K
ATOM	18627	CD	PRO	K	53	63.511	125.303	159.839	1.00173.83	K

ATOM	18628	CA	PRO	K	53	61.494	126.175	158.831	1.00173.60	K
ATOM	18629	CB	PRO	K	53	61.215	125.574	160.201	1.00173.76	K
ATOM	18630	CG	PRO	K	53	62.526	125.754	160.895	1.00174.11	K
ATOM	18631	C	PRO	K	53	61.219	127.675	158.795	1.00173.27	K
ATOM	18632	O	PRO	K	53	60.066	128.103	158.720	1.00173.13	K
ATOM	18633	N	LEU	K	54	62.283	128.468	158.861	1.00172.78	K
ATOM	18634	CA	LEU	K	54	62.164	129.921	158.828	1.00171.77	K
ATOM	18635	CB	LEU	K	54	61.569	130.437	160.141	1.00170.19	K
ATOM	18636	CG	LEU	K	54	61.318	131.944	160.228	1.00168.57	K
ATOM	18637	CD1	LEU	K	54	60.418	132.398	159.085	1.00168.09	K
ATOM	18638	CD2	LEU	K	54	60.674	132.258	161.566	1.00167.77	K
ATOM	18639	C	LEU	K	54	63.525	130.562	158.589	1.00171.40	K
ATOM	18640	O	LEU	K	54	64.488	130.286	159.303	1.00171.41	K
ATOM	18641	N	PHE	K	55	63.596	131.417	157.574	1.00170.90	K
ATOM	18642	CA	PHE	K	55	64.833	132.101	157.229	1.00170.37	K
ATOM	18643	CB	PHE	K	55	65.817	131.112	156.599	1.00170.31	K
ATOM	18644	CG	PHE	K	55	65.356	130.540	155.288	1.00170.27	K
ATOM	18645	CD1	PHE	K	55	65.790	131.090	154.085	1.00170.29	K
ATOM	18646	CD2	PHE	K	55	64.503	129.443	155.253	1.00170.31	K
ATOM	18647	CE1	PHE	K	55	65.384	130.554	152.866	1.00170.17	K
ATOM	18648	CE2	PHE	K	55	64.091	128.898	154.039	1.00170.57	K
ATOM	18649	CZ	PHE	K	55	64.533	129.453	152.844	1.00170.30	K
ATOM	18650	C	PHE	K	55	64.523	133.240	156.266	1.00170.21	K
ATOM	18651	O	PHE	K	55	63.391	133.368	155.800	1.00170.74	K
ATOM	18652	N	ALA	K	56	65.521	134.064	155.963	1.00169.35	K
ATOM	18653	CA	ALA	K	56	65.305	135.195	155.068	1.00167.66	K
ATOM	18654	CB	ALA	K	56	65.484	136.495	155.838	1.00167.28	K
ATOM	18655	C	ALA	K	56	66.191	135.206	153.827	1.00166.49	K
ATOM	18656	O	ALA	K	56	67.375	134.879	153.892	1.00166.32	K
ATOM	18657	N	MET	K	57	65.598	135.586	152.698	1.00165.77	K
ATOM	18658	CA	MET	K	57	66.312	135.678	151.430	1.00165.33	K
ATOM	18659	CB	MET	K	57	65.615	134.865	150.340	1.00164.68	K
ATOM	18660	CG	MET	K	57	65.632	133.370	150.560	1.00165.05	K
ATOM	18661	SD	MET	K	57	65.626	132.489	148.982	1.00164.26	K
ATOM	18662	CE	MET	K	57	64.002	132.873	148.388	1.00164.47	K
ATOM	18663	C	MET	K	57	66.361	137.133	150.997	1.00165.45	K
ATOM	18664	O	MET	K	57	65.417	137.641	150.388	1.00165.34	K
ATOM	18665	N	LYS	K	58	67.465	137.800	151.314	1.00165.51	K
ATOM	18666	CA	LYS	K	58	67.631	139.204	150.967	1.00165.45	K
ATOM	18667	CB	LYS	K	58	68.698	139.836	151.866	1.00167.55	K
ATOM	18668	CG	LYS	K	58	68.618	141.349	151.957	1.00170.18	K
ATOM	18669	CD	LYS	K	58	69.734	141.901	152.825	1.00171.02	K
ATOM	18670	CE	LYS	K	58	69.443	143.330	153.252	1.00172.23	K
ATOM	18671	NZ	LYS	K	58	68.258	143.391	154.160	1.00173.04	K
ATOM	18672	C	LYS	K	58	68.018	139.379	149.499	1.00163.69	K
ATOM	18673	O	LYS	K	58	68.873	138.654	148.985	1.00163.55	K
ATOM	18674	N	GLY	K	59	67.381	140.340	148.832	1.00161.41	K
ATOM	18675	CA	GLY	K	59	67.671	140.604	147.433	1.00158.88	K
ATOM	18676	C	GLY	K	59	67.725	139.346	146.589	1.00157.21	K
ATOM	18677	O	GLY	K	59	67.185	138.310	146.978	1.00157.31	K
ATOM	18678	N	LYS	K	60	68.376	139.429	145.431	1.00155.48	K
ATOM	18679	CA	LYS	K	60	68.487	138.272	144.549	1.00153.97	K
ATOM	18680	CB	LYS	K	60	69.017	138.675	143.170	1.00150.31	K
ATOM	18681	CG	LYS	K	60	68.154	139.671	142.436	1.00146.23	K
ATOM	18682	CD	LYS	K	60	68.419	139.638	140.940	1.00144.12	K
ATOM	18683	CE	LYS	K	60	67.828	138.395	140.297	1.00142.55	K
ATOM	18684	NZ	LYS	K	60	67.875	138.458	138.807	1.00141.12	K
ATOM	18685	C	LYS	K	60	69.413	137.222	145.143	1.00154.91	K

ATOM	18686	O	LYS	K	60	70.636	137.333	145.040	1.00155.29	K
ATOM	18687	N	LYS	K	61	68.828	136.204	145.766	1.00155.49	K
ATOM	18688	CA	LYS	K	61	69.609	135.131	146.365	1.00155.71	K
ATOM	18689	CB	LYS	K	61	69.413	135.101	147.881	1.00155.79	K
ATOM	18690	CG	LYS	K	61	70.721	135.083	148.655	1.00155.96	K
ATOM	18691	CD	LYS	K	61	70.609	134.250	149.916	1.00156.55	K
ATOM	18692	CE	LYS	K	61	69.474	134.721	150.805	1.00156.56	K
ATOM	18693	NZ	LYS	K	61	69.325	133.828	151.984	1.00158.37	K
ATOM	18694	C	LYS	K	61	69.175	133.801	145.767	1.00156.26	K
ATOM	18695	O	LYS	K	61	68.700	133.755	144.632	1.00155.74	K
ATOM	18696	N	GLU	K	62	69.342	132.724	146.531	1.00157.62	K
ATOM	18697	CA	GLU	K	62	68.968	131.389	146.071	1.00159.11	K
ATOM	18698	CB	GLU	K	62	69.632	131.110	144.716	1.00158.09	K
ATOM	18699	CG	GLU	K	62	68.797	130.288	143.748	1.00156.58	K
ATOM	18700	CD	GLU	K	62	69.022	128.799	143.890	1.00156.22	K
ATOM	18701	OE1	GLU	K	62	68.828	128.272	145.006	1.00155.91	K
ATOM	18702	OE2	GLU	K	62	69.388	128.156	142.881	1.00155.41	K
ATOM	18703	C	GLU	K	62	69.399	130.349	147.109	1.00160.20	K
ATOM	18704	O	GLU	K	62	70.573	129.983	147.183	1.00160.12	K
ATOM	18705	N	ASN	K	63	68.446	129.886	147.913	1.00161.83	K
ATOM	18706	CA	ASN	K	63	68.729	128.898	148.950	1.00163.44	K
ATOM	18707	CB	ASN	K	63	68.233	129.400	150.308	1.00162.30	K
ATOM	18708	CG	ASN	K	63	68.777	130.769	150.658	1.00160.45	K
ATOM	18709	OD1	ASN	K	63	68.621	131.725	149.898	1.00158.20	K
ATOM	18710	ND2	ASN	K	63	69.415	130.874	151.817	1.00159.48	K
ATOM	18711	C	ASN	K	63	68.081	127.553	148.640	1.00165.18	K
ATOM	18712	O	ASN	K	63	67.311	127.428	147.688	1.00164.99	K
ATOM	18713	N	THR	K	64	68.395	126.553	149.458	1.00167.64	K
ATOM	18714	CA	THR	K	64	67.857	125.209	149.275	1.00170.39	K
ATOM	18715	CB	THR	K	64	68.996	124.191	149.015	1.00170.56	K
ATOM	18716	OG1	THR	K	64	69.734	124.584	147.852	1.00171.70	K
ATOM	18717	CG2	THR	K	64	68.434	122.796	148.798	1.00169.83	K
ATOM	18718	C	THR	K	64	67.053	124.737	150.488	1.00172.33	K
ATOM	18719	O	THR	K	64	67.499	124.864	151.630	1.00172.89	K
ATOM	18720	N	LEU	K	65	65.864	124.195	150.230	1.00173.91	K
ATOM	18721	CA	LEU	K	65	64.999	123.680	151.290	1.00175.48	K
ATOM	18722	CB	LEU	K	65	63.530	123.964	150.963	1.00175.77	K
ATOM	18723	CG	LEU	K	65	63.103	125.432	150.906	1.00175.43	K
ATOM	18724	CD1	LEU	K	65	61.659	125.528	150.436	1.00174.88	K
ATOM	18725	CD2	LEU	K	65	63.266	126.070	152.277	1.00175.63	K
ATOM	18726	C	LEU	K	65	65.226	122.173	151.397	1.00176.23	K
ATOM	18727	O	LEU	K	65	65.501	121.520	150.394	1.00177.08	K
ATOM	18728	N	ARG	K	66	65.110	121.622	152.603	1.00176.48	K
ATOM	18729	CA	ARG	K	66	65.328	120.192	152.804	1.00176.75	K
ATOM	18730	CB	ARG	K	66	66.585	119.968	153.654	1.00176.12	K
ATOM	18731	CG	ARG	K	66	67.815	120.717	153.151	1.00175.24	K
ATOM	18732	CD	ARG	K	66	69.062	120.398	153.970	1.00173.73	K
ATOM	18733	NE	ARG	K	66	70.195	121.253	153.616	1.00172.62	K
ATOM	18734	CZ	ARG	K	66	70.719	121.344	152.396	1.00172.21	K
ATOM	18735	NH1	ARG	K	66	70.217	120.633	151.393	1.00171.75	K
ATOM	18736	NH2	ARG	K	66	71.750	122.149	152.176	1.00171.13	K
ATOM	18737	C	ARG	K	66	64.137	119.486	153.450	1.00177.44	K
ATOM	18738	O	ARG	K	66	63.827	119.706	154.624	1.00176.98	K
ATOM	18739	N	ILE	K	67	63.479	118.634	152.667	1.00178.50	K
ATOM	18740	CA	ILE	K	67	62.319	117.868	153.121	1.00179.50	K
ATOM	18741	CB	ILE	K	67	61.441	117.399	151.927	1.00179.63	K
ATOM	18742	CG2	ILE	K	67	60.342	116.472	152.418	1.00179.87	K
ATOM	18743	CG1	ILE	K	67	60.813	118.599	151.213	1.00180.13	K

ATOM	18744	CD1	ILE	K	67	61.791	119.429	150.409	1.00180.92	K
ATOM	18745	C	ILE	K	67	62.765	116.629	153.896	1.00179.78	K
ATOM	18746	O	ILE	K	67	63.342	115.706	153.323	1.00179.49	K
ATOM	18747	N	LEU	K	68	62.480	116.605	155.193	1.00180.37	K
ATOM	18748	CA	LEU	K	68	62.868	115.480	156.036	1.00180.39	K
ATOM	18749	CB	LEU	K	68	63.387	115.992	157.378	1.00180.54	K
ATOM	18750	CG	LEU	K	68	64.351	117.178	157.311	1.00180.47	K
ATOM	18751	CD1	LEU	K	68	64.730	117.592	158.718	1.00179.45	K
ATOM	18752	CD2	LEU	K	68	65.585	116.812	156.505	1.00180.39	K
ATOM	18753	C	LEU	K	68	61.703	114.530	156.274	1.00180.45	K
ATOM	18754	O	LEU	K	68	60.582	114.961	156.544	1.00180.03	K
ATOM	18755	N	ASP	K	69	61.981	113.234	156.183	1.00180.95	K
ATOM	18756	CA	ASP	K	69	60.962	112.208	156.378	1.00181.32	K
ATOM	18757	CB	ASP	K	69	61.364	110.932	155.623	1.00181.05	K
ATOM	18758	CG	ASP	K	69	60.240	109.913	155.546	1.00180.71	K
ATOM	18759	OD1	ASP	K	69	60.349	108.955	154.748	1.00180.16	K
ATOM	18760	OD2	ASP	K	69	59.251	110.070	156.287	1.00180.39	K
ATOM	18761	C	ASP	K	69	60.763	111.905	157.863	1.00181.42	K
ATOM	18762	O	ASP	K	69	61.568	111.204	158.477	1.00181.28	K
ATOM	18763	N	ALA	K	70	59.688	112.444	158.433	1.00181.49	K
ATOM	18764	CA	ALA	K	70	59.366	112.237	159.843	1.00181.19	K
ATOM	18765	CB	ALA	K	70	58.674	113.473	160.414	1.00181.18	K
ATOM	18766	C	ALA	K	70	58.471	111.012	160.002	1.00181.28	K
ATOM	18767	O	ALA	K	70	58.556	110.297	161.002	1.00181.11	K
ATOM	18768	N	THR	K	71	57.606	110.776	159.017	1.00181.50	K
ATOM	18769	CA	THR	K	71	56.720	109.617	159.053	1.00181.53	K
ATOM	18770	CB	THR	K	71	55.747	109.599	157.841	1.00182.54	K
ATOM	18771	OG1	THR	K	71	55.049	108.347	157.806	1.00183.73	K
ATOM	18772	CG2	THR	K	71	56.497	109.796	156.533	1.00182.95	K
ATOM	18773	C	THR	K	71	57.589	108.364	159.028	1.00180.62	K
ATOM	18774	O	THR	K	71	58.208	108.048	158.011	1.00180.97	K
ATOM	18775	N	ASN	K	72	57.640	107.663	160.157	1.00179.08	K
ATOM	18776	CA	ASN	K	72	58.445	106.450	160.281	1.00177.61	K
ATOM	18777	CB	ASN	K	72	58.527	106.026	161.750	1.00177.58	K
ATOM	18778	CG	ASN	K	72	59.509	106.869	162.548	1.00177.47	K
ATOM	18779	OD1	ASN	K	72	59.597	106.747	163.769	1.00177.71	K
ATOM	18780	ND2	ASN	K	72	60.260	107.722	161.857	1.00176.47	K
ATOM	18781	C	ASN	K	72	57.942	105.279	159.436	1.00176.35	K
ATOM	18782	O	ASN	K	72	57.690	104.190	159.957	1.00176.21	K
ATOM	18783	N	ASN	K	73	57.810	105.504	158.131	1.00174.80	K
ATOM	18784	CA	ASN	K	73	57.346	104.467	157.212	1.00172.39	K
ATOM	18785	CB	ASN	K	73	58.312	103.278	157.245	1.00170.98	K
ATOM	18786	CG	ASN	K	73	59.758	103.693	157.034	1.00169.21	K
ATOM	18787	OD1	ASN	K	73	60.328	104.441	157.832	1.00168.13	K
ATOM	18788	ND2	ASN	K	73	60.359	103.208	155.956	1.00167.18	K
ATOM	18789	C	ASN	K	73	55.946	104.013	157.619	1.00171.31	K
ATOM	18790	O	ASN	K	73	55.589	102.845	157.480	1.00171.46	K
ATOM	18791	N	GLN	K	74	55.158	104.955	158.122	1.00169.86	K
ATOM	18792	CA	GLN	K	74	53.804	104.672	158.580	1.00167.84	K
ATOM	18793	CB	GLN	K	74	53.472	105.595	159.762	1.00169.01	K
ATOM	18794	CG	GLN	K	74	54.417	105.400	160.957	1.00169.91	K
ATOM	18795	CD	GLN	K	74	54.434	106.573	161.934	1.00169.88	K
ATOM	18796	OE1	GLN	K	74	55.130	106.534	162.953	1.00169.03	K
ATOM	18797	NE2	GLN	K	74	53.677	107.620	161.625	1.00169.76	K
ATOM	18798	C	GLN	K	74	52.781	104.840	157.460	1.00165.39	K
ATOM	18799	O	GLN	K	74	51.574	104.742	157.686	1.00164.90	K
ATOM	18800	N	LEU	K	75	53.278	105.073	156.249	1.00162.68	K
ATOM	18801	CA	LEU	K	75	52.420	105.264	155.086	1.00160.47	K

ATOM	18802	CB	LEU	K	75	52.933	106.443	154.260	1.00159.86	K
ATOM	18803	CG	LEU	K	75	52.851	107.812	154.931	1.00159.48	K
ATOM	18804	CD1	LEU	K	75	53.650	108.814	154.125	1.00159.86	K
ATOM	18805	CD2	LEU	K	75	51.398	108.243	155.053	1.00158.14	K
ATOM	18806	C	LEU	K	75	52.347	104.018	154.211	1.00158.93	K
ATOM	18807	O	LEU	K	75	53.218	103.151	154.277	1.00158.28	K
ATOM	18808	N	PRO	K	76	51.295	103.912	153.379	1.00157.73	K
ATOM	18809	CD	PRO	K	76	50.184	104.872	153.244	1.00157.41	K
ATOM	18810	CA	PRO	K	76	51.102	102.768	152.481	1.00156.20	K
ATOM	18811	CB	PRO	K	76	49.909	103.196	151.633	1.00155.93	K
ATOM	18812	CG	PRO	K	76	49.119	104.032	152.582	1.00156.60	K
ATOM	18813	C	PRO	K	76	52.350	102.530	151.642	1.00155.16	K
ATOM	18814	O	PRO	K	76	52.940	103.476	151.116	1.00155.29	K
ATOM	18815	N	GLN	K	77	52.746	101.269	151.517	1.00153.89	K
ATOM	18816	CA	GLN	K	77	53.934	100.922	150.748	1.00152.83	K
ATOM	18817	CB	GLN	K	77	54.876	100.076	151.608	1.00150.81	K
ATOM	18818	CG	GLN	K	77	55.205	100.712	152.958	1.00147.18	K
ATOM	18819	CD	GLN	K	77	55.883	102.068	152.828	1.00145.02	K
ATOM	18820	OE1	GLN	K	77	56.009	102.808	153.805	1.00142.97	K
ATOM	18821	NE2	GLN	K	77	56.331	102.394	151.622	1.00143.00	K
ATOM	18822	C	GLN	K	77	53.587	100.183	149.455	1.00153.37	K
ATOM	18823	O	GLN	K	77	54.406	99.437	148.914	1.00152.85	K
ATOM	18824	N	ASP	K	78	52.370	100.407	148.962	1.00154.73	K
ATOM	18825	CA	ASP	K	78	51.899	99.779	147.730	1.00154.94	K
ATOM	18826	CB	ASP	K	78	50.722	98.839	148.024	1.00154.58	K
ATOM	18827	CG	ASP	K	78	49.474	99.580	148.490	1.00154.36	K
ATOM	18828	OD1	ASP	K	78	48.417	98.927	148.623	1.00153.08	K
ATOM	18829	OD2	ASP	K	78	49.544	100.807	148.724	1.00153.87	K
ATOM	18830	C	ASP	K	78	51.465	100.818	146.691	1.00154.93	K
ATOM	18831	O	ASP	K	78	51.038	100.465	145.592	1.00154.44	K
ATOM	18832	N	ARG	K	79	51.577	102.096	147.048	1.00155.04	K
ATOM	18833	CA	ARG	K	79	51.192	103.195	146.163	1.00153.59	K
ATOM	18834	CB	ARG	K	79	49.671	103.326	146.123	1.00154.47	K
ATOM	18835	CG	ARG	K	79	49.070	103.839	147.427	1.00156.17	K
ATOM	18836	CD	ARG	K	79	47.569	103.624	147.478	1.00156.64	K
ATOM	18837	NE	ARG	K	79	47.248	102.204	147.556	1.00158.66	K
ATOM	18838	CZ	ARG	K	79	46.011	101.717	147.580	1.00159.21	K
ATOM	18839	NH1	ARG	K	79	44.969	102.540	147.532	1.00158.60	K
ATOM	18840	NH2	ARG	K	79	45.812	100.407	147.651	1.00159.76	K
ATOM	18841	C	ARG	K	79	51.782	104.492	146.704	1.00152.03	K
ATOM	18842	O	ARG	K	79	52.477	104.488	147.721	1.00151.61	K
ATOM	18843	N	GLU	K	80	51.493	105.605	146.038	1.00150.35	K
ATOM	18844	CA	GLU	K	80	52.000	106.892	146.496	1.00148.51	K
ATOM	18845	CB	GLU	K	80	52.259	107.840	145.327	1.00145.58	K
ATOM	18846	CG	GLU	K	80	52.762	107.209	144.062	1.00141.48	K
ATOM	18847	CD	GLU	K	80	53.170	108.260	143.062	1.00139.87	K
ATOM	18848	OE1	GLU	K	80	54.306	108.759	143.163	1.00141.02	K
ATOM	18849	OE2	GLU	K	80	52.351	108.608	142.190	1.00138.19	K
ATOM	18850	C	GLU	K	80	50.985	107.561	147.413	1.00148.43	K
ATOM	18851	O	GLU	K	80	49.779	107.495	147.171	1.00147.03	K
ATOM	18852	N	SER	K	81	51.481	108.203	148.466	1.00149.62	K
ATOM	18853	CA	SER	K	81	50.627	108.923	149.402	1.00150.63	K
ATOM	18854	CB	SER	K	81	51.058	108.667	150.850	1.00150.72	K
ATOM	18855	OG	SER	K	81	50.780	107.335	151.249	1.00151.24	K
ATOM	18856	C	SER	K	81	50.792	110.399	149.063	1.00151.36	K
ATOM	18857	O	SER	K	81	51.884	110.952	149.187	1.00151.16	K
ATOM	18858	N	LEU	K	82	49.709	111.029	148.622	1.00152.50	K
ATOM	18859	CA	LEU	K	82	49.748	112.434	148.242	1.00153.34	K

ATOM	18860	CB	LEU	K	82	48.558	112.767	147.332	1.00151.51	K
ATOM	18861	CG	LEU	K	82	48.379	114.198	146.807	1.00149.37	K
ATOM	18862	CD1	LEU	K	82	49.642	114.681	146.121	1.00148.78	K
ATOM	18863	CD2	LEU	K	82	47.209	114.228	145.835	1.00147.54	K
ATOM	18864	C	LEU	K	82	49.766	113.381	149.432	1.00155.30	K
ATOM	18865	O	LEU	K	82	48.962	113.259	150.360	1.00155.71	K
ATOM	18866	N	PHE	K	83	50.715	114.313	149.389	1.00156.92	K
ATOM	18867	CA	PHE	K	83	50.888	115.348	150.405	1.00158.03	K
ATOM	18868	CB	PHE	K	83	52.167	115.129	151.222	1.00157.47	K
ATOM	18869	CG	PHE	K	83	52.090	113.978	152.177	1.00158.53	K
ATOM	18870	CD1	PHE	K	83	52.053	112.669	151.709	1.00158.39	K
ATOM	18871	CD2	PHE	K	83	52.036	114.201	153.550	1.00159.55	K
ATOM	18872	CE1	PHE	K	83	51.962	111.598	152.592	1.00158.41	K
ATOM	18873	CE2	PHE	K	83	51.945	113.137	154.443	1.00159.45	K
ATOM	18874	CZ	PHE	K	83	51.907	111.832	153.962	1.00158.51	K
ATOM	18875	C	PHE	K	83	51.009	116.655	149.636	1.00158.92	K
ATOM	18876	O	PHE	K	83	50.875	116.671	148.411	1.00159.20	K
ATOM	18877	N	TRP	K	84	51.258	117.750	150.344	1.00159.28	K
ATOM	18878	CA	TRP	K	84	51.404	119.036	149.683	1.00159.06	K
ATOM	18879	CB	TRP	K	84	50.074	119.795	149.665	1.00155.82	K
ATOM	18880	CG	TRP	K	84	49.036	119.162	148.792	1.00151.16	K
ATOM	18881	CD2	TRP	K	84	48.791	119.445	147.409	1.00149.39	K
ATOM	18882	CE2	TRP	K	84	47.738	118.602	146.988	1.00148.67	K
ATOM	18883	CE3	TRP	K	84	49.359	120.330	146.483	1.00148.29	K
ATOM	18884	CD1	TRP	K	84	48.150	118.186	149.145	1.00150.10	K
ATOM	18885	NE1	TRP	K	84	47.364	117.842	148.066	1.00148.83	K
ATOM	18886	CZ2	TRP	K	84	47.242	118.618	145.679	1.00147.00	K
ATOM	18887	CZ3	TRP	K	84	48.863	120.346	145.178	1.00146.45	K
ATOM	18888	CH2	TRP	K	84	47.816	119.495	144.793	1.00145.79	K
ATOM	18889	C	TRP	K	84	52.481	119.903	150.310	1.00160.51	K
ATOM	18890	O	TRP	K	84	52.527	120.086	151.527	1.00159.70	K
ATOM	18891	N	MET	K	85	53.348	120.433	149.457	1.00163.07	K
ATOM	18892	CA	MET	K	85	54.438	121.289	149.891	1.00165.13	K
ATOM	18893	CB	MET	K	85	55.692	120.979	149.072	1.00166.08	K
ATOM	18894	CG	MET	K	85	56.816	121.975	149.281	1.00167.90	K
ATOM	18895	SD	MET	K	85	57.404	122.023	150.993	1.00169.51	K
ATOM	18896	CE	MET	K	85	59.180	122.120	150.723	1.00168.57	K
ATOM	18897	C	MET	K	85	54.070	122.762	149.736	1.00165.63	K
ATOM	18898	O	MET	K	85	53.704	123.209	148.646	1.00165.43	K
ATOM	18899	N	ASN	K	86	54.170	123.513	150.829	1.00166.17	K
ATOM	18900	CA	ASN	K	86	53.854	124.935	150.801	1.00167.32	K
ATOM	18901	CB	ASN	K	86	52.631	125.231	151.670	1.00166.85	K
ATOM	18902	CG	ASN	K	86	51.384	124.530	151.173	1.00166.61	K
ATOM	18903	OD1	ASN	K	86	51.258	123.311	151.285	1.00166.05	K
ATOM	18904	ND2	ASN	K	86	50.458	125.298	150.612	1.00165.94	K
ATOM	18905	C	ASN	K	86	55.022	125.793	151.264	1.00168.50	K
ATOM	18906	O	ASN	K	86	55.643	125.518	152.290	1.00167.70	K
ATOM	18907	N	VAL	K	87	55.309	126.835	150.491	1.00170.57	K
ATOM	18908	CA	VAL	K	87	56.389	127.769	150.791	1.00172.29	K
ATOM	18909	CB	VAL	K	87	57.497	127.709	149.712	1.00173.30	K
ATOM	18910	CG1	VAL	K	87	58.592	128.720	150.029	1.00173.62	K
ATOM	18911	CG2	VAL	K	87	58.077	126.302	149.641	1.00173.14	K
ATOM	18912	C	VAL	K	87	55.804	129.178	150.836	1.00172.59	K
ATOM	18913	O	VAL	K	87	55.384	129.722	149.813	1.00171.49	K
ATOM	18914	N	LYS	K	88	55.777	129.758	152.033	1.00173.72	K
ATOM	18915	CA	LYS	K	88	55.223	131.091	152.236	1.00175.10	K
ATOM	18916	CB	LYS	K	88	54.487	131.147	153.577	1.00175.10	K
ATOM	18917	CG	LYS	K	88	53.915	132.512	153.916	1.00175.43	K

ATOM	18918	CD	LYS	K	88	53.291	132.505	155.297	1.00175.41	K
ATOM	18919	CE	LYS	K	88	52.750	133.874	155.662	1.00175.81	K
ATOM	18920	NZ	LYS	K	88	52.313	133.922	157.083	1.00176.09	K
ATOM	18921	C	LYS	K	88	56.262	132.204	152.190	1.00175.92	K
ATOM	18922	O	LYS	K	88	57.267	132.158	152.897	1.00175.50	K
ATOM	18923	N	ALA	K	89	56.000	133.210	151.359	1.00177.56	K
ATOM	18924	CA	ALA	K	89	56.894	134.354	151.217	1.00179.35	K
ATOM	18925	CB	ALA	K	89	57.015	134.742	149.748	1.00179.18	K
ATOM	18926	C	ALA	K	89	56.361	135.533	152.030	1.00180.46	K
ATOM	18927	O	ALA	K	89	55.403	136.196	151.628	1.00179.91	K
ATOM	18928	N	ILE	K	90	56.989	135.788	153.174	1.00182.39	K
ATOM	18929	CA	ILE	K	90	56.579	136.879	154.054	1.00184.31	K
ATOM	18930	CB	ILE	K	90	56.704	136.471	155.542	1.00184.26	K
ATOM	18931	CG2	ILE	K	90	56.138	137.570	156.428	1.00183.10	K
ATOM	18932	CG1	ILE	K	90	55.974	135.147	155.790	1.00184.60	K
ATOM	18933	CD1	ILE	K	90	56.128	134.603	157.203	1.00183.91	K
ATOM	18934	C	ILE	K	90	57.421	138.136	153.839	1.00185.81	K
ATOM	18935	O	ILE	K	90	58.639	138.119	154.023	1.00186.12	K
ATOM	18936	N	PRO	K	91	56.780	139.247	153.445	1.00186.96	K
ATOM	18937	CD	PRO	K	91	55.363	139.391	153.070	1.00187.27	K
ATOM	18938	CA	PRO	K	91	57.506	140.498	153.219	1.00187.84	K
ATOM	18939	CB	PRO	K	91	56.507	141.331	152.428	1.00187.32	K
ATOM	18940	CG	PRO	K	91	55.205	140.892	152.995	1.00187.30	K
ATOM	18941	C	PRO	K	91	57.909	141.160	154.535	1.00188.95	K
ATOM	18942	O	PRO	K	91	58.166	140.478	155.527	1.00189.27	K
ATOM	18943	N	SER	K	92	57.954	142.489	154.540	1.00190.01	K
ATOM	18944	CA	SER	K	92	58.333	143.238	155.736	1.00190.76	K
ATOM	18945	CB	SER	K	92	59.689	143.909	155.519	1.00189.92	K
ATOM	18946	OG	SER	K	92	60.459	143.197	154.560	1.00188.56	K
ATOM	18947	C	SER	K	92	57.289	144.307	156.049	1.00191.74	K
ATOM	18948	O	SER	K	92	56.637	144.828	155.147	1.00191.70	K
ATOM	18949	N	MET	K	93	57.137	144.636	157.327	1.00192.85	K
ATOM	18950	CA	MET	K	93	56.174	145.651	157.739	1.00194.26	K
ATOM	18951	CB	MET	K	93	55.925	145.552	159.249	1.00195.13	K
ATOM	18952	CG	MET	K	93	54.559	146.058	159.720	1.00196.63	K
ATOM	18953	SD	MET	K	93	54.328	147.856	159.614	1.00198.54	K
ATOM	18954	CE	MET	K	93	54.503	148.327	161.344	1.00198.26	K
ATOM	18955	C	MET	K	93	56.755	147.019	157.385	1.00195.13	K
ATOM	18956	O	MET	K	93	57.882	147.337	157.767	1.00194.72	K
ATOM	18957	N	ASP	K	94	55.989	147.818	156.645	1.00196.33	K
ATOM	18958	CA	ASP	K	94	56.434	149.151	156.236	1.00197.05	K
ATOM	18959	CB	ASP	K	94	55.635	149.656	155.024	1.00196.62	K
ATOM	18960	CG	ASP	K	94	55.833	148.802	153.785	1.00196.17	K
ATOM	18961	OD1	ASP	K	94	55.482	149.277	152.678	1.00195.42	K
ATOM	18962	OD2	ASP	K	94	56.328	147.659	153.916	1.00195.82	K
ATOM	18963	C	ASP	K	94	56.292	150.170	157.360	1.00197.54	K
ATOM	18964	O	ASP	K	94	55.177	150.534	157.743	1.00197.71	K
ATOM	18965	N	LYS	K	95	57.422	150.634	157.884	1.00197.83	K
ATOM	18966	CA	LYS	K	95	57.404	151.630	158.946	1.00197.99	K
ATOM	18967	CB	LYS	K	95	58.758	151.684	159.661	1.00197.69	K
ATOM	18968	CG	LYS	K	95	59.112	150.418	160.440	1.00196.45	K
ATOM	18969	CD	LYS	K	95	59.542	149.279	159.530	1.00194.99	K
ATOM	18970	CE	LYS	K	95	60.862	149.587	158.841	1.00193.79	K
ATOM	18971	NZ	LYS	K	95	61.312	148.450	157.996	1.00192.55	K
ATOM	18972	C	LYS	K	95	57.095	152.985	158.312	1.00198.22	K
ATOM	18973	O	LYS	K	95	57.029	154.008	159.003	1.00198.38	K
ATOM	18974	N	SER	K	96	56.899	152.973	156.993	1.00197.98	K
ATOM	18975	CA	SER	K	96	56.597	154.181	156.221	1.00197.13	K

ATOM	18976	CB	SER	K	96	57.376	154.173	154.902	1.00196.51	K
ATOM	18977	OG	SER	K	96	56.940	153.120	154.048	1.00195.11	K
ATOM	18978	C	SER	K	96	55.101	154.300	155.917	1.00196.49	K
ATOM	18979	O	SER	K	96	54.623	155.358	155.508	1.00196.58	K
ATOM	18980	N	LYS	K	97	54.371	153.208	156.123	1.00195.30	K
ATOM	18981	CA	LYS	K	97	52.937	153.187	155.880	1.00193.92	K
ATOM	18982	CB	LYS	K	97	52.607	152.158	154.793	1.00192.20	K
ATOM	18983	CG	LYS	K	97	53.562	152.158	153.604	1.00189.58	K
ATOM	18984	CD	LYS	K	97	53.623	153.517	152.932	1.00187.60	K
ATOM	18985	CE	LYS	K	97	54.663	153.521	151.829	1.00185.80	K
ATOM	18986	NZ	LYS	K	97	54.802	154.859	151.195	1.00184.26	K
ATOM	18987	C	LYS	K	97	52.221	152.835	157.182	1.00194.10	K
ATOM	18988	O	LYS	K	97	51.016	152.579	157.195	1.00193.87	K
ATOM	18989	N	LEU	K	98	52.984	152.826	158.272	1.00194.52	K
ATOM	18990	CA	LEU	K	98	52.464	152.513	159.601	1.00195.12	K
ATOM	18991	CB	LEU	K	98	53.579	152.720	160.646	1.00194.74	K
ATOM	18992	CG	LEU	K	98	53.307	152.583	162.152	1.00194.51	K
ATOM	18993	CD1	LEU	K	98	52.552	153.799	162.651	1.00193.92	K
ATOM	18994	CD2	LEU	K	98	52.542	151.300	162.442	1.00194.81	K
ATOM	18995	C	LEU	K	98	51.225	153.323	159.968	1.00195.42	K
ATOM	18996	O	LEU	K	98	50.304	152.811	160.602	1.00195.32	K
ATOM	18997	N	THR	K	99	51.204	154.589	159.570	1.00195.81	K
ATOM	18998	CA	THR	K	99	50.071	155.463	159.877	1.00196.24	K
ATOM	18999	CB	THR	K	99	50.524	156.919	160.139	1.00196.47	K
ATOM	19000	OG1	THR	K	99	50.809	157.560	158.889	1.00196.76	K
ATOM	19001	CG2	THR	K	99	51.786	156.936	160.973	1.00196.53	K
ATOM	19002	C	THR	K	99	49.076	155.500	158.718	1.00196.20	K
ATOM	19003	O	THR	K	99	48.484	156.539	158.431	1.00195.63	K
ATOM	19004	N	GLU	K	100	48.879	154.364	158.060	1.00196.56	K
ATOM	19005	CA	GLU	K	100	47.957	154.303	156.932	1.00196.78	K
ATOM	19006	CB	GLU	K	100	48.728	154.595	155.643	1.00196.45	K
ATOM	19007	CG	GLU	K	100	49.482	155.909	155.645	1.00195.57	K
ATOM	19008	CD	GLU	K	100	50.550	155.947	154.576	1.00195.37	K
ATOM	19009	OE1	GLU	K	100	50.206	155.761	153.390	1.00195.59	K
ATOM	19010	OE2	GLU	K	100	51.730	156.162	154.919	1.00194.99	K
ATOM	19011	C	GLU	K	100	47.185	152.988	156.787	1.00197.09	K
ATOM	19012	O	GLU	K	100	47.389	152.037	157.543	1.00197.14	K
ATOM	19013	N	ASN	K	101	46.307	152.966	155.785	1.00197.15	K
ATOM	19014	CA	ASN	K	101	45.467	151.819	155.460	1.00196.81	K
ATOM	19015	CB	ASN	K	101	44.069	152.295	155.054	1.00198.21	K
ATOM	19016	CG	ASN	K	101	43.332	152.979	156.195	1.00199.98	K
ATOM	19017	OD1	ASN	K	101	43.936	153.697	156.995	1.00200.00	K
ATOM	19018	ND2	ASN	K	101	42.019	152.775	156.264	1.00200.00	K
ATOM	19019	C	ASN	K	101	46.086	151.029	154.314	1.00195.82	K
ATOM	19020	O	ASN	K	101	45.821	151.310	153.140	1.00195.15	K
ATOM	19021	N	THR	K	102	46.906	150.039	154.652	1.00194.93	K
ATOM	19022	CA	THR	K	102	47.569	149.240	153.631	1.00193.54	K
ATOM	19023	CB	THR	K	102	49.099	149.267	153.826	1.00193.08	K
ATOM	19024	OG1	THR	K	102	49.444	148.573	155.032	1.00192.00	K
ATOM	19025	CG2	THR	K	102	49.589	150.700	153.927	1.00193.20	K
ATOM	19026	C	THR	K	102	47.110	147.787	153.573	1.00192.49	K
ATOM	19027	O	THR	K	102	46.424	147.292	154.469	1.00193.17	K
ATOM	19028	N	LEU	K	103	47.504	147.118	152.493	1.00190.43	K
ATOM	19029	CA	LEU	K	103	47.175	145.717	152.251	1.00188.33	K
ATOM	19030	CB	LEU	K	103	46.102	145.600	151.168	1.00187.31	K
ATOM	19031	CG	LEU	K	103	45.838	144.175	150.676	1.00185.90	K
ATOM	19032	CD1	LEU	K	103	45.208	143.342	151.784	1.00184.95	K
ATOM	19033	CD2	LEU	K	103	44.928	144.226	149.468	1.00184.90	K

ATOM	19034	C	LEU	K	103	48.410	144.948	151.795	1.00187.20	K
ATOM	19035	O	LEU	K	103	48.916	145.183	150.696	1.00187.31	K
ATOM	19036	N	GLN	K	104	48.888	144.032	152.634	1.00185.59	K
ATOM	19037	CA	GLN	K	104	50.058	143.226	152.295	1.00183.28	K
ATOM	19038	CB	GLN	K	104	51.101	143.277	153.420	1.00183.18	K
ATOM	19039	CG	GLN	K	104	52.116	144.410	153.285	1.00182.21	K
ATOM	19040	CD	GLN	K	104	53.316	144.230	154.196	1.00181.84	K
ATOM	19041	OE1	GLN	K	104	54.270	145.007	154.147	1.00181.43	K
ATOM	19042	NE2	GLN	K	104	53.273	143.200	155.035	1.00181.75	K
ATOM	19043	C	GLN	K	104	49.708	141.772	151.983	1.00180.92	K
ATOM	19044	O	GLN	K	104	48.918	141.140	152.682	1.00180.29	K
ATOM	19045	N	LEU	K	105	50.316	141.248	150.926	1.00178.33	K
ATOM	19046	CA	LEU	K	105	50.073	139.879	150.502	1.00175.99	K
ATOM	19047	CB	LEU	K	105	49.693	139.862	149.022	1.00175.15	K
ATOM	19048	CG	LEU	K	105	48.649	140.894	148.592	1.00174.67	K
ATOM	19049	CD1	LEU	K	105	48.378	140.739	147.105	1.00174.86	K
ATOM	19050	CD2	LEU	K	105	47.367	140.710	149.392	1.00175.46	K
ATOM	19051	C	LEU	K	105	51.294	138.996	150.722	1.00174.67	K
ATOM	19052	O	LEU	K	105	52.430	139.433	150.543	1.00174.67	K
ATOM	19053	N	ALA	K	106	51.049	137.750	151.116	1.00172.80	K
ATOM	19054	CA	ALA	K	106	52.118	136.787	151.345	1.00170.72	K
ATOM	19055	CB	ALA	K	106	52.063	136.263	152.777	1.00169.58	K
ATOM	19056	C	ALA	K	106	51.926	135.644	150.357	1.00169.56	K
ATOM	19057	O	ALA	K	106	51.314	134.626	150.686	1.00170.52	K
ATOM	19058	N	ILE	K	107	52.437	135.826	149.141	1.00167.42	K
ATOM	19059	CA	ILE	K	107	52.312	134.814	148.096	1.00165.44	K
ATOM	19060	CB	ILE	K	107	53.034	135.244	146.800	1.00163.89	K
ATOM	19061	CG2	ILE	K	107	52.775	134.227	145.699	1.00162.11	K
ATOM	19062	CG1	ILE	K	107	52.538	136.620	146.356	1.00163.32	K
ATOM	19063	CD1	ILE	K	107	51.054	136.681	146.074	1.00161.64	K
ATOM	19064	C	ILE	K	107	52.890	133.480	148.550	1.00165.02	K
ATOM	19065	O	ILE	K	107	54.012	133.413	149.055	1.00165.31	K
ATOM	19066	N	ILE	K	108	52.116	132.417	148.358	1.00163.70	K
ATOM	19067	CA	ILE	K	108	52.538	131.081	148.751	1.00162.06	K
ATOM	19068	CB	ILE	K	108	51.639	130.527	149.876	1.00163.00	K
ATOM	19069	CG2	ILE	K	108	52.188	129.193	150.371	1.00163.81	K
ATOM	19070	CG1	ILE	K	108	51.567	131.538	151.026	1.00163.75	K
ATOM	19071	CD1	ILE	K	108	50.599	131.160	152.133	1.00164.30	K
ATOM	19072	C	ILE	K	108	52.470	130.131	147.564	1.00160.26	K
ATOM	19073	O	ILE	K	108	51.619	130.279	146.686	1.00159.67	K
ATOM	19074	N	SER	K	109	53.376	129.160	147.536	1.00158.77	K
ATOM	19075	CA	SER	K	109	53.400	128.180	146.459	1.00157.13	K
ATOM	19076	CB	SER	K	109	54.749	128.203	145.733	1.00158.49	K
ATOM	19077	OG	SER	K	109	54.874	129.361	144.925	1.00159.55	K
ATOM	19078	C	SER	K	109	53.125	126.782	146.992	1.00154.43	K
ATOM	19079	O	SER	K	109	53.742	126.336	147.962	1.00153.67	K
ATOM	19080	N	ARG	K	110	52.181	126.102	146.353	1.00151.40	K
ATOM	19081	CA	ARG	K	110	51.808	124.754	146.746	1.00148.57	K
ATOM	19082	CB	ARG	K	110	50.356	124.731	147.238	1.00148.34	K
ATOM	19083	CG	ARG	K	110	49.689	123.379	147.084	1.00147.44	K
ATOM	19084	CD	ARG	K	110	48.333	123.296	147.763	1.00147.11	K
ATOM	19085	NE	ARG	K	110	48.462	123.194	149.211	1.00146.96	K
ATOM	19086	CZ	ARG	K	110	47.504	122.732	150.009	1.00146.97	K
ATOM	19087	NH1	ARG	K	110	46.345	122.329	149.496	1.00144.98	K
ATOM	19088	NH2	ARG	K	110	47.703	122.671	151.320	1.00146.30	K
ATOM	19089	C	ARG	K	110	51.984	123.786	145.580	1.00146.21	K
ATOM	19090	O	ARG	K	110	51.404	123.969	144.507	1.00145.35	K
ATOM	19091	N	ILE	K	111	52.799	122.758	145.799	1.00143.89	K

ATOM	19092	CA	ILE	K	111	53.058	121.753	144.777	1.00141.46	K
ATOM	19093	CB	ILE	K	111	54.453	121.942	144.131	1.00141.83	K
ATOM	19094	CG2	ILE	K	111	54.565	123.345	143.559	1.00142.22	K
ATOM	19095	CG1	ILE	K	111	55.562	121.704	145.158	1.00141.97	K
ATOM	19096	CD1	ILE	K	111	56.960	121.749	144.567	1.00138.58	K
ATOM	19097	C	ILE	K	111	52.962	120.350	145.358	1.00138.85	K
ATOM	19098	O	ILE	K	111	53.257	120.125	146.531	1.00137.96	K
ATOM	19099	N	LYS	K	112	52.551	119.409	144.517	1.00136.60	K
ATOM	19100	CA	LYS	K	112	52.386	118.021	144.925	1.00135.08	K
ATOM	19101	CB	LYS	K	112	51.753	117.225	143.786	1.00133.04	K
ATOM	19102	CG	LYS	K	112	50.466	117.838	143.267	1.00131.40	K
ATOM	19103	CD	LYS	K	112	49.959	117.107	142.044	1.00128.94	K
ATOM	19104	CE	LYS	K	112	48.750	117.808	141.456	1.00127.46	K
ATOM	19105	NZ	LYS	K	112	48.324	117.188	140.172	1.00126.83	K
ATOM	19106	C	LYS	K	112	53.687	117.351	145.346	1.00135.01	K
ATOM	19107	O	LYS	K	112	54.730	117.557	144.736	1.00134.87	K
ATOM	19108	N	LEU	K	113	53.604	116.543	146.397	1.00135.52	K
ATOM	19109	CA	LEU	K	113	54.743	115.802	146.927	1.00135.99	K
ATOM	19110	CB	LEU	K	113	55.168	116.384	148.276	1.00133.32	K
ATOM	19111	CG	LEU	K	113	56.035	115.525	149.200	1.00130.23	K
ATOM	19112	CD1	LEU	K	113	57.262	115.001	148.475	1.00129.87	K
ATOM	19113	CD2	LEU	K	113	56.446	116.370	150.387	1.00129.86	K
ATOM	19114	C	LEU	K	113	54.307	114.353	147.093	1.00138.04	K
ATOM	19115	O	LEU	K	113	53.511	114.036	147.974	1.00139.12	K
ATOM	19116	N	TYR	K	114	54.833	113.476	146.245	1.00140.66	K
ATOM	19117	CA	TYR	K	114	54.462	112.068	146.287	1.00143.66	K
ATOM	19118	CB	TYR	K	114	54.308	111.530	144.867	1.00144.48	K
ATOM	19119	CG	TYR	K	114	53.186	112.175	144.105	1.00146.02	K
ATOM	19120	CD1	TYR	K	114	53.436	112.881	142.932	1.00146.13	K
ATOM	19121	CE1	TYR	K	114	52.406	113.489	142.230	1.00148.18	K
ATOM	19122	CD2	TYR	K	114	51.872	112.088	144.561	1.00147.41	K
ATOM	19123	CE2	TYR	K	114	50.833	112.689	143.865	1.00149.04	K
ATOM	19124	CZ	TYR	K	114	51.106	113.389	142.699	1.00149.08	K
ATOM	19125	OH	TYR	K	114	50.078	113.984	141.999	1.00150.07	K
ATOM	19126	C	TYR	K	114	55.388	111.138	147.051	1.00145.10	K
ATOM	19127	O	TYR	K	114	56.580	111.044	146.755	1.00144.60	K
ATOM	19128	N	TYR	K	115	54.825	110.445	148.035	1.00147.51	K
ATOM	19129	CA	TYR	K	115	55.586	109.481	148.814	1.00150.36	K
ATOM	19130	CB	TYR	K	115	54.955	109.261	150.190	1.00149.87	K
ATOM	19131	CG	TYR	K	115	55.700	108.250	151.037	1.00150.26	K
ATOM	19132	CD1	TYR	K	115	57.012	108.498	151.461	1.00151.46	K
ATOM	19133	CE1	TYR	K	115	57.708	107.571	152.239	1.00151.78	K
ATOM	19134	CD2	TYR	K	115	55.097	107.044	151.413	1.00149.07	K
ATOM	19135	CE2	TYR	K	115	55.780	106.110	152.192	1.00149.69	K
ATOM	19136	CZ	TYR	K	115	57.085	106.381	152.602	1.00151.11	K
ATOM	19137	OH	TYR	K	115	57.765	105.467	153.374	1.00150.29	K
ATOM	19138	C	TYR	K	115	55.519	108.191	148.011	1.00152.45	K
ATOM	19139	O	TYR	K	115	54.659	107.344	148.253	1.00152.06	K
ATOM	19140	N	ARG	K	116	56.421	108.061	147.043	1.00155.59	K
ATOM	19141	CA	ARG	K	116	56.472	106.887	146.180	1.00158.77	K
ATOM	19142	CB	ARG	K	116	56.997	107.288	144.802	1.00159.56	K
ATOM	19143	CG	ARG	K	116	57.110	106.145	143.809	1.00161.45	K
ATOM	19144	CD	ARG	K	116	57.721	106.637	142.506	1.00163.87	K
ATOM	19145	NE	ARG	K	116	56.920	107.697	141.902	1.00165.02	K
ATOM	19146	CZ	ARG	K	116	57.298	108.413	140.846	1.00164.64	K
ATOM	19147	NH1	ARG	K	116	58.474	108.184	140.271	1.00163.57	K
ATOM	19148	NH2	ARG	K	116	56.500	109.358	140.363	1.00164.12	K
ATOM	19149	C	ARG	K	116	57.356	105.783	146.760	1.00160.75	K

ATOM	19150	O	ARG K 116	58.585	105.872	146.715	1.00161.19	K
ATOM	19151	N	PRO K 117	56.737	104.724	147.310	1.00162.00	K
ATOM	19152	CD	PRO K 117	55.282	104.535	147.446	1.00162.37	K
ATOM	19153	CA	PRO K 117	57.459	103.595	147.904	1.00162.09	K
ATOM	19154	CB	PRO K 117	56.344	102.597	148.202	1.00162.30	K
ATOM	19155	CG	PRO K 117	55.196	103.491	148.534	1.00162.01	K
ATOM	19156	C	PRO K 117	58.507	103.021	146.960	1.00162.05	K
ATOM	19157	O	PRO K 117	58.169	102.395	145.958	1.00161.90	K
ATOM	19158	N	ALA K 118	59.778	103.246	147.281	1.00161.91	K
ATOM	19159	CA	ALA K 118	60.870	102.742	146.461	1.00161.79	K
ATOM	19160	CB	ALA K 118	62.196	103.308	146.957	1.00160.31	K
ATOM	19161	C	ALA K 118	60.878	101.217	146.539	1.00162.65	K
ATOM	19162	O	ALA K 118	61.709	100.629	147.227	1.00162.43	K
ATOM	19163	N	LYS K 119	59.938	100.592	145.833	1.00164.41	K
ATOM	19164	CA	LYS K 119	59.798	99.135	145.804	1.00165.74	K
ATOM	19165	CB	LYS K 119	59.519	98.604	147.216	1.00165.72	K
ATOM	19166	CG	LYS K 119	59.847	97.133	147.428	1.00165.26	K
ATOM	19167	CD	LYS K 119	61.349	96.917	147.426	1.00165.98	K
ATOM	19168	CE	LYS K 119	61.715	95.498	147.823	1.00166.73	K
ATOM	19169	NZ	LYS K 119	63.192	95.325	147.949	1.00167.84	K
ATOM	19170	C	LYS K 119	58.626	98.771	144.887	1.00166.61	K
ATOM	19171	O	LYS K 119	58.092	97.663	144.958	1.00167.04	K
ATOM	19172	N	LEU K 120	58.233	99.714	144.033	1.00167.03	K
ATOM	19173	CA	LEU K 120	57.113	99.522	143.114	1.00167.61	K
ATOM	19174	CB	LEU K 120	56.442	100.871	142.828	1.00166.61	K
ATOM	19175	CG	LEU K 120	55.989	101.672	144.056	1.00165.96	K
ATOM	19176	CD1	LEU K 120	55.369	102.985	143.609	1.00165.26	K
ATOM	19177	CD2	LEU K 120	54.989	100.862	144.871	1.00165.42	K
ATOM	19178	C	LEU K 120	57.521	98.855	141.801	1.00168.35	K
ATOM	19179	O	LEU K 120	58.580	99.150	141.241	1.00168.20	K
ATOM	19180	N	ALA K 121	56.667	97.955	141.319	1.00169.18	K
ATOM	19181	CA	ALA K 121	56.914	97.225	140.079	1.00169.84	K
ATOM	19182	CB	ALA K 121	55.935	96.062	139.956	1.00169.70	K
ATOM	19183	C	ALA K 121	56.789	98.139	138.866	1.00170.45	K
ATOM	19184	O	ALA K 121	57.785	98.681	138.382	1.00170.60	K
ATOM	19185	N	LEU K 122	55.562	98.296	138.376	1.00170.68	K
ATOM	19186	CA	LEU K 122	55.293	99.143	137.221	1.00171.57	K
ATOM	19187	CB	LEU K 122	53.787	99.391	137.102	1.00171.05	K
ATOM	19188	CG	LEU K 122	53.355	100.505	136.148	1.00171.23	K
ATOM	19189	CD1	LEU K 122	53.879	100.217	134.757	1.00170.95	K
ATOM	19190	CD2	LEU K 122	51.844	100.614	136.137	1.00171.51	K
ATOM	19191	C	LEU K 122	56.023	100.483	137.316	1.00172.76	K
ATOM	19192	O	LEU K 122	55.657	101.337	138.123	1.00173.60	K
ATOM	19193	N	PRO K 123	57.066	100.686	136.490	1.00173.20	K
ATOM	19194	CD	PRO K 123	57.540	99.827	135.391	1.00173.21	K
ATOM	19195	CA	PRO K 123	57.812	101.949	136.523	1.00173.43	K
ATOM	19196	CB	PRO K 123	58.883	101.741	135.454	1.00173.03	K
ATOM	19197	CG	PRO K 123	58.211	100.828	134.480	1.00172.64	K
ATOM	19198	C	PRO K 123	56.895	103.143	136.229	1.00173.87	K
ATOM	19199	O	PRO K 123	55.958	103.035	135.433	1.00173.75	K
ATOM	19200	N	PRO K 124	57.162	104.299	136.863	1.00173.89	K
ATOM	19201	CD	PRO K 124	58.387	104.598	137.625	1.00173.05	K
ATOM	19202	CA	PRO K 124	56.358	105.515	136.682	1.00173.70	K
ATOM	19203	CB	PRO K 124	57.197	106.592	137.377	1.00172.83	K
ATOM	19204	CG	PRO K 124	58.593	106.050	137.316	1.00172.27	K
ATOM	19205	C	PRO K 124	55.990	105.892	135.244	1.00173.72	K
ATOM	19206	O	PRO K 124	54.854	106.281	134.966	1.00173.04	K
ATOM	19207	N	ASP K 125	56.951	105.772	134.335	1.00174.38	K

ATOM	19208	CA	ASP	K	125	56.736	106.112	132.931	1.00174.95	K
ATOM	19209	CB	ASP	K	125	58.055	105.992	132.165	1.00176.41	K
ATOM	19210	CG	ASP	K	125	58.702	104.626	132.328	1.00177.95	K
ATOM	19211	OD1	ASP	K	125	58.061	103.614	131.969	1.00179.21	K
ATOM	19212	OD2	ASP	K	125	59.854	104.566	132.812	1.00178.61	K
ATOM	19213	C	ASP	K	125	55.673	105.260	132.237	1.00174.70	K
ATOM	19214	O	ASP	K	125	54.976	105.733	131.338	1.00174.10	K
ATOM	19215	N	GLN	K	126	55.555	104.006	132.658	1.00175.01	K
ATOM	19216	CA	GLN	K	126	54.598	103.074	132.071	1.00174.93	K
ATOM	19217	CB	GLN	K	126	55.199	101.666	132.104	1.00175.50	K
ATOM	19218	CG	GLN	K	126	54.435	100.607	131.328	1.00176.22	K
ATOM	19219	CD	GLN	K	126	55.145	99.262	131.338	1.00176.50	K
ATOM	19220	OE1	GLN	K	126	54.631	98.270	130.819	1.00176.66	K
ATOM	19221	NE2	GLN	K	126	56.335	99.226	131.930	1.00176.43	K
ATOM	19222	C	GLN	K	126	53.255	103.101	132.803	1.00174.43	K
ATOM	19223	O	GLN	K	126	52.543	102.098	132.863	1.00173.73	K
ATOM	19224	N	ALA	K	127	52.907	104.265	133.343	1.00174.26	K
ATOM	19225	CA	ALA	K	127	51.663	104.420	134.090	1.00174.03	K
ATOM	19226	CB	ALA	K	127	51.930	105.210	135.368	1.00173.56	K
ATOM	19227	C	ALA	K	127	50.522	105.072	133.307	1.00173.88	K
ATOM	19228	O	ALA	K	127	49.378	104.627	133.393	1.00174.54	K
ATOM	19229	N	ALA	K	128	50.830	106.122	132.550	1.00173.49	K
ATOM	19230	CA	ALA	K	128	49.816	106.842	131.777	1.00172.73	K
ATOM	19231	CB	ALA	K	128	50.459	108.028	131.056	1.00172.43	K
ATOM	19232	C	ALA	K	128	49.028	105.991	130.776	1.00172.47	K
ATOM	19233	O	ALA	K	128	47.890	106.328	130.442	1.00172.25	K
ATOM	19234	N	GLU	K	129	49.621	104.900	130.294	1.00172.38	K
ATOM	19235	CA	GLU	K	129	48.938	104.034	129.330	1.00171.69	K
ATOM	19236	CB	GLU	K	129	49.921	103.069	128.659	1.00170.41	K
ATOM	19237	CG	GLU	K	129	51.334	103.592	128.487	1.00168.06	K
ATOM	19238	CD	GLU	K	129	52.298	102.999	129.501	1.00167.46	K
ATOM	19239	OE1	GLU	K	129	53.500	103.327	129.437	1.00167.61	K
ATOM	19240	OE2	GLU	K	129	51.855	102.203	130.358	1.00165.97	K
ATOM	19241	C	GLU	K	129	47.867	103.213	130.041	1.00172.12	K
ATOM	19242	O	GLU	K	129	46.775	102.989	129.509	1.00171.73	K
ATOM	19243	N	LYS	K	130	48.202	102.768	131.250	1.00172.64	K
ATOM	19244	CA	LYS	K	130	47.315	101.957	132.078	1.00172.62	K
ATOM	19245	CB	LYS	K	130	48.038	101.562	133.370	1.00171.26	K
ATOM	19246	CG	LYS	K	130	49.486	101.137	133.169	1.00168.80	K
ATOM	19247	CD	LYS	K	130	49.590	99.953	132.226	1.00167.33	K
ATOM	19248	CE	LYS	K	130	51.035	99.588	131.959	1.00166.26	K
ATOM	19249	NZ	LYS	K	130	51.128	98.448	131.011	1.00165.94	K
ATOM	19250	C	LYS	K	130	46.014	102.673	132.431	1.00173.10	K
ATOM	19251	O	LYS	K	130	45.174	102.129	133.147	1.00173.04	K
ATOM	19252	N	LEU	K	131	45.849	103.893	131.934	1.00173.90	K
ATOM	19253	CA	LEU	K	131	44.649	104.668	132.219	1.00174.35	K
ATOM	19254	CB	LEU	K	131	44.947	106.165	132.094	1.00173.34	K
ATOM	19255	CG	LEU	K	131	43.857	107.155	132.515	1.00172.03	K
ATOM	19256	CD1	LEU	K	131	43.501	106.948	133.980	1.00171.87	K
ATOM	19257	CD2	LEU	K	131	44.353	108.575	132.290	1.00171.54	K
ATOM	19258	C	LEU	K	131	43.504	104.289	131.288	1.00175.18	K
ATOM	19259	O	LEU	K	131	43.530	104.588	130.092	1.00175.64	K
ATOM	19260	N	ARG	K	132	42.505	103.614	131.848	1.00175.62	K
ATOM	19261	CA	ARG	K	132	41.328	103.200	131.095	1.00176.06	K
ATOM	19262	CB	ARG	K	132	40.915	101.782	131.495	1.00175.20	K
ATOM	19263	CG	ARG	K	132	42.043	100.754	131.443	1.00173.20	K
ATOM	19264	CD	ARG	K	132	41.669	99.511	132.254	1.00171.47	K
ATOM	19265	NE	ARG	K	132	42.824	98.666	132.552	1.00168.72	K

ATOM	19266	CZ	ARG K 132	42.819	97.688	133.455	1.00166.66	K
ATOM	19267	NH1	ARG K 132	41.718	97.428	134.154	1.00165.18	K
ATOM	19268	NH2	ARG K 132	43.917	96.972	133.666	1.00165.63	K
ATOM	19269	C	ARG K 132	40.233	104.195	131.465	1.00177.04	K
ATOM	19270	O	ARG K 132	40.495	105.151	132.193	1.00176.88	K
ATOM	19271	N	PHE K 133	39.013	103.984	130.975	1.00178.89	K
ATOM	19272	CA	PHE K 133	37.920	104.909	131.276	1.00180.29	K
ATOM	19273	CB	PHE K 133	37.754	105.926	130.136	1.00182.80	K
ATOM	19274	CG	PHE K 133	38.964	106.787	129.900	1.00184.51	K
ATOM	19275	CD1	PHE K 133	40.108	106.261	129.305	1.00184.64	K
ATOM	19276	CD2	PHE K 133	38.962	108.125	130.279	1.00184.80	K
ATOM	19277	CE1	PHE K 133	41.230	107.053	129.091	1.00184.41	K
ATOM	19278	CE2	PHE K 133	40.081	108.925	130.068	1.00184.87	K
ATOM	19279	CZ	PHE K 133	41.217	108.386	129.473	1.00184.60	K
ATOM	19280	C	PHE K 133	36.561	104.260	131.544	1.00179.63	K
ATOM	19281	O	PHE K 133	36.464	103.091	131.912	1.00179.82	K
ATOM	19282	N	ARG K 134	35.518	105.061	131.355	1.00178.47	K
ATOM	19283	CA	ARG K 134	34.128	104.660	131.543	1.00177.86	K
ATOM	19284	CB	ARG K 134	33.834	104.381	133.011	1.00176.04	K
ATOM	19285	CG	ARG K 134	32.377	104.050	133.288	1.00173.12	K
ATOM	19286	CD	ARG K 134	32.117	104.036	134.775	1.00170.69	K
ATOM	19287	NE	ARG K 134	33.099	103.207	135.463	1.00169.13	K
ATOM	19288	CZ	ARG K 134	33.230	103.147	136.783	1.00168.17	K
ATOM	19289	NH1	ARG K 134	32.436	103.870	137.563	1.00166.60	K
ATOM	19290	NH2	ARG K 134	34.157	102.366	137.324	1.00167.60	K
ATOM	19291	C	ARG K 134	33.325	105.866	131.097	1.00178.71	K
ATOM	19292	O	ARG K 134	32.835	106.640	131.921	1.00178.25	K
ATOM	19293	N	ARG K 135	33.193	106.020	129.785	1.00180.60	K
ATOM	19294	CA	ARG K 135	32.493	107.165	129.228	1.00182.29	K
ATOM	19295	CB	ARG K 135	33.131	107.535	127.882	1.00183.57	K
ATOM	19296	CG	ARG K 135	32.709	106.694	126.684	1.00185.05	K
ATOM	19297	CD	ARG K 135	31.753	107.516	125.849	1.00186.32	K
ATOM	19298	NE	ARG K 135	32.289	108.865	125.723	1.00186.70	K
ATOM	19299	CZ	ARG K 135	31.558	109.959	125.547	1.00186.49	K
ATOM	19300	NH1	ARG K 135	32.164	111.135	125.454	1.00186.78	K
ATOM	19301	NH2	ARG K 135	30.233	109.884	125.469	1.00185.60	K
ATOM	19302	C	ARG K 135	30.981	107.009	129.085	1.00182.91	K
ATOM	19303	O	ARG K 135	30.497	106.163	128.333	1.00183.16	K
ATOM	19304	N	SER K 136	30.245	107.836	129.827	1.00183.34	K
ATOM	19305	CA	SER K 136	28.783	107.835	129.798	1.00183.90	K
ATOM	19306	CB	SER K 136	28.218	108.050	131.209	1.00183.15	K
ATOM	19307	OG	SER K 136	28.598	107.010	132.093	1.00182.71	K
ATOM	19308	C	SER K 136	28.310	108.967	128.885	1.00184.32	K
ATOM	19309	O	SER K 136	28.830	109.152	127.782	1.00184.71	K
ATOM	19310	N	ALA K 137	27.321	109.721	129.351	1.00184.32	K
ATOM	19311	CA	ALA K 137	26.786	110.848	128.595	1.00184.40	K
ATOM	19312	CB	ALA K 137	25.326	110.600	128.237	1.00183.84	K
ATOM	19313	C	ALA K 137	26.912	112.075	129.488	1.00184.43	K
ATOM	19314	O	ALA K 137	26.609	113.199	129.079	1.00184.68	K
ATOM	19315	N	ASN K 138	27.365	111.832	130.717	1.00184.02	K
ATOM	19316	CA	ASN K 138	27.559	112.879	131.713	1.00182.75	K
ATOM	19317	CB	ASN K 138	26.201	113.393	132.221	1.00183.19	K
ATOM	19318	CG	ASN K 138	25.340	112.295	132.844	1.00183.97	K
ATOM	19319	OD1	ASN K 138	25.771	111.583	133.755	1.00184.78	K
ATOM	19320	ND2	ASN K 138	24.109	112.168	132.360	1.00183.79	K
ATOM	19321	C	ASN K 138	28.404	112.398	132.898	1.00181.38	K
ATOM	19322	O	ASN K 138	28.714	113.175	133.801	1.00181.14	K
ATOM	19323	N	SER K 139	28.783	111.123	132.891	1.00179.68	K

ATOM	19324	CA	SER	K	139	29.574	110.569	133.986	1.00177.87	K
ATOM	19325	CB	SER	K	139	28.694	109.663	134.854	1.00176.18	K
ATOM	19326	OG	SER	K	139	27.633	110.394	135.440	1.00173.30	K
ATOM	19327	C	SER	K	139	30.813	109.796	133.536	1.00177.55	K
ATOM	19328	O	SER	K	139	30.952	108.609	133.834	1.00177.94	K
ATOM	19329	N	LEU	K	140	31.713	110.469	132.822	1.00176.53	K
ATOM	19330	CA	LEU	K	140	32.944	109.831	132.358	1.00175.35	K
ATOM	19331	CB	LEU	K	140	33.718	110.779	131.434	1.00175.25	K
ATOM	19332	CG	LEU	K	140	34.921	110.224	130.661	1.00175.20	K
ATOM	19333	CD1	LEU	K	140	35.383	111.260	129.647	1.00174.74	K
ATOM	19334	CD2	LEU	K	140	36.050	109.862	131.616	1.00175.10	K
ATOM	19335	C	LEU	K	140	33.773	109.499	133.596	1.00174.43	K
ATOM	19336	O	LEU	K	140	33.962	110.348	134.464	1.00174.58	K
ATOM	19337	N	THR	K	141	34.268	108.269	133.676	1.00173.40	K
ATOM	19338	CA	THR	K	141	35.044	107.847	134.836	1.00172.11	K
ATOM	19339	CB	THR	K	141	34.415	106.598	135.489	1.00171.55	K
ATOM	19340	OG1	THR	K	141	33.033	106.850	135.768	1.00170.77	K
ATOM	19341	CG2	THR	K	141	35.138	106.248	136.783	1.00170.73	K
ATOM	19342	C	THR	K	141	36.513	107.541	134.554	1.00171.58	K
ATOM	19343	O	THR	K	141	36.844	106.518	133.948	1.00171.22	K
ATOM	19344	N	LEU	K	142	37.388	108.436	135.005	1.00170.84	K
ATOM	19345	CA	LEU	K	142	38.827	108.259	134.841	1.00169.78	K
ATOM	19346	CB	LEU	K	142	39.574	109.565	135.149	1.00171.04	K
ATOM	19347	CG	LEU	K	142	39.409	110.784	134.229	1.00172.13	K
ATOM	19348	CD1	LEU	K	142	40.065	110.505	132.890	1.00172.43	K
ATOM	19349	CD2	LEU	K	142	37.934	111.122	134.051	1.00172.45	K
ATOM	19350	C	LEU	K	142	39.244	107.182	135.839	1.00167.96	K
ATOM	19351	O	LEU	K	142	39.000	107.313	137.037	1.00166.31	K
ATOM	19352	N	ILE	K	143	39.867	106.117	135.347	1.00166.75	K
ATOM	19353	CA	ILE	K	143	40.291	105.023	136.213	1.00164.87	K
ATOM	19354	CB	ILE	K	143	39.416	103.759	135.958	1.00165.57	K
ATOM	19355	CG2	ILE	K	143	39.179	103.577	134.468	1.00165.51	K
ATOM	19356	CG1	ILE	K	143	40.071	102.518	136.574	1.00166.17	K
ATOM	19357	CD1	ILE	K	143	40.119	102.521	138.092	1.00166.61	K
ATOM	19358	C	ILE	K	143	41.775	104.670	136.069	1.00162.69	K
ATOM	19359	O	ILE	K	143	42.262	104.383	134.974	1.00161.88	K
ATOM	19360	N	ASN	K	144	42.484	104.698	137.193	1.00160.65	K
ATOM	19361	CA	ASN	K	144	43.906	104.383	137.227	1.00158.94	K
ATOM	19362	CB	ASN	K	144	44.706	105.613	137.658	1.00158.64	K
ATOM	19363	CG	ASN	K	144	46.091	105.259	138.155	1.00157.89	K
ATOM	19364	OD1	ASN	K	144	46.837	104.543	137.489	1.00157.24	K
ATOM	19365	ND2	ASN	K	144	46.443	105.761	139.332	1.00156.74	K
ATOM	19366	C	ASN	K	144	44.214	103.221	138.166	1.00158.17	K
ATOM	19367	O	ASN	K	144	44.023	103.319	139.378	1.00157.07	K
ATOM	19368	N	PRO	K	145	44.691	102.098	137.608	1.00158.28	K
ATOM	19369	CD	PRO	K	145	44.658	101.808	136.162	1.00158.45	K
ATOM	19370	CA	PRO	K	145	45.040	100.891	138.361	1.00158.18	K
ATOM	19371	CB	PRO	K	145	44.717	99.782	137.373	1.00158.01	K
ATOM	19372	CG	PRO	K	145	45.195	100.382	136.096	1.00158.32	K
ATOM	19373	C	PRO	K	145	46.507	100.856	138.800	1.00157.79	K
ATOM	19374	O	PRO	K	145	46.950	99.895	139.427	1.00157.54	K
ATOM	19375	N	THR	K	146	47.264	101.893	138.458	1.00157.14	K
ATOM	19376	CA	THR	K	146	48.671	101.949	138.838	1.00156.95	K
ATOM	19377	CB	THR	K	146	49.480	102.825	137.863	1.00157.09	K
ATOM	19378	OG1	THR	K	146	49.166	104.207	138.077	1.00157.64	K
ATOM	19379	CG2	THR	K	146	49.147	102.462	136.427	1.00157.42	K
ATOM	19380	C	THR	K	146	48.779	102.555	140.233	1.00157.06	K
ATOM	19381	O	THR	K	146	47.826	103.153	140.731	1.00157.96	K

ATOM	19382	N	PRO	K	147	49.940	102.400	140.888	1.00156.47	K
ATOM	19383	CD	PRO	K	147	51.053	101.506	140.518	1.00155.77	K
ATOM	19384	CA	PRO	K	147	50.141	102.948	142.234	1.00155.95	K
ATOM	19385	CB	PRO	K	147	51.229	102.049	142.800	1.00156.40	K
ATOM	19386	CG	PRO	K	147	52.078	101.797	141.597	1.00155.82	K
ATOM	19387	C	PRO	K	147	50.551	104.425	142.257	1.00155.83	K
ATOM	19388	O	PRO	K	147	51.030	104.921	143.279	1.00154.84	K
ATOM	19389	N	TYR	K	148	50.361	105.122	141.136	1.00156.61	K
ATOM	19390	CA	TYR	K	148	50.729	106.539	141.036	1.00156.42	K
ATOM	19391	CB	TYR	K	148	51.745	106.764	139.902	1.00157.10	K
ATOM	19392	CG	TYR	K	148	52.979	105.886	139.923	1.00157.90	K
ATOM	19393	CD1	TYR	K	148	52.940	104.579	139.434	1.00157.99	K
ATOM	19394	CE1	TYR	K	148	54.081	103.777	139.432	1.00158.20	K
ATOM	19395	CD2	TYR	K	148	54.193	106.370	140.416	1.00157.98	K
ATOM	19396	CE2	TYR	K	148	55.338	105.577	140.420	1.00157.45	K
ATOM	19397	CZ	TYR	K	148	55.277	104.284	139.928	1.00157.99	K
ATOM	19398	OH	TYR	K	148	56.412	103.505	139.936	1.00159.22	K
ATOM	19399	C	TYR	K	148	49.541	107.470	140.778	1.00155.12	K
ATOM	19400	O	TYR	K	148	48.568	107.086	140.126	1.00154.24	K
ATOM	19401	N	TYR	K	149	49.634	108.699	141.287	1.00153.78	K
ATOM	19402	CA	TYR	K	149	48.587	109.695	141.067	1.00152.45	K
ATOM	19403	CB	TYR	K	149	48.678	110.851	142.071	1.00148.64	K
ATOM	19404	CG	TYR	K	149	48.079	110.604	143.438	1.00144.41	K
ATOM	19405	CD1	TYR	K	149	48.824	110.012	144.453	1.00143.83	K
ATOM	19406	CE1	TYR	K	149	48.285	109.817	145.726	1.00141.57	K
ATOM	19407	CD2	TYR	K	149	46.772	110.995	143.726	1.00142.43	K
ATOM	19408	CE2	TYR	K	149	46.221	110.805	144.992	1.00140.03	K
ATOM	19409	CZ	TYR	K	149	46.984	110.215	145.988	1.00140.32	K
ATOM	19410	OH	TYR	K	149	46.460	110.025	147.248	1.00138.13	K
ATOM	19411	C	TYR	K	149	48.808	110.263	139.672	1.00153.92	K
ATOM	19412	O	TYR	K	149	49.730	111.051	139.461	1.00154.09	K
ATOM	19413	N	LEU	K	150	47.970	109.864	138.722	1.00155.84	K
ATOM	19414	CA	LEU	K	150	48.098	110.345	137.351	1.00157.47	K
ATOM	19415	CB	LEU	K	150	47.407	109.383	136.380	1.00157.94	K
ATOM	19416	CG	LEU	K	150	47.813	107.908	136.410	1.00158.00	K
ATOM	19417	CD1	LEU	K	150	47.001	107.148	135.372	1.00157.31	K
ATOM	19418	CD2	LEU	K	150	49.302	107.765	136.138	1.00158.17	K
ATOM	19419	C	LEU	K	150	47.482	111.732	137.209	1.00158.59	K
ATOM	19420	O	LEU	K	150	46.271	111.896	137.349	1.00158.86	K
ATOM	19421	N	THR	K	151	48.315	112.728	136.929	1.00159.77	K
ATOM	19422	CA	THR	K	151	47.829	114.091	136.768	1.00160.45	K
ATOM	19423	CB	THR	K	151	48.946	115.111	137.070	1.00159.95	K
ATOM	19424	OG1	THR	K	151	49.536	114.814	138.343	1.00158.11	K
ATOM	19425	CG2	THR	K	151	48.380	116.521	137.104	1.00159.94	K
ATOM	19426	C	THR	K	151	47.328	114.289	135.336	1.00161.60	K
ATOM	19427	O	THR	K	151	48.040	114.830	134.489	1.00161.89	K
ATOM	19428	N	VAL	K	152	46.101	113.838	135.078	1.00162.37	K
ATOM	19429	CA	VAL	K	152	45.482	113.939	133.756	1.00162.71	K
ATOM	19430	CB	VAL	K	152	44.201	113.070	133.677	1.00161.90	K
ATOM	19431	CG1	VAL	K	152	43.500	113.283	132.344	1.00161.67	K
ATOM	19432	CG2	VAL	K	152	44.556	111.601	133.856	1.00161.64	K
ATOM	19433	C	VAL	K	152	45.123	115.370	133.365	1.00163.62	K
ATOM	19434	O	VAL	K	152	44.416	116.068	134.092	1.00163.05	K
ATOM	19435	N	THR	K	153	45.615	115.796	132.206	1.00164.91	K
ATOM	19436	CA	THR	K	153	45.354	117.137	131.707	1.00166.23	K
ATOM	19437	CB	THR	K	153	46.573	118.057	131.917	1.00167.11	K
ATOM	19438	OG1	THR	K	153	46.306	119.342	131.343	1.00168.79	K
ATOM	19439	CG2	THR	K	153	47.805	117.462	131.261	1.00167.24	K

ATOM	19440	C	THR K 153	45.004	117.117	130.222	1.00166.56	K
ATOM	19441	O	THR K 153	45.177	116.100	129.544	1.00166.05	K
ATOM	19442	N	GLU K 154	44.512	118.251	129.730	1.00167.39	K
ATOM	19443	CA	GLU K 154	44.119	118.404	128.335	1.00168.47	K
ATOM	19444	CB	GLU K 154	45.358	118.459	127.441	1.00168.46	K
ATOM	19445	CG	GLU K 154	46.399	119.478	127.893	1.00168.46	K
ATOM	19446	CD	GLU K 154	47.522	119.658	126.887	1.00168.69	K
ATOM	19447	OE1	GLU K 154	48.547	120.287	127.234	1.00167.13	K
ATOM	19448	OE2	GLU K 154	47.373	119.177	125.745	1.00169.69	K
ATOM	19449	C	GLU K 154	43.209	117.258	127.898	1.00169.74	K
ATOM	19450	O	GLU K 154	43.331	116.741	126.786	1.00169.77	K
ATOM	19451	N	LEU K 155	42.302	116.864	128.789	1.00171.04	K
ATOM	19452	CA	LEU K 155	41.356	115.785	128.516	1.00172.09	K
ATOM	19453	CB	LEU K 155	40.650	115.364	129.812	1.00172.71	K
ATOM	19454	CG	LEU K 155	39.729	114.141	129.775	1.00173.08	K
ATOM	19455	CD1	LEU K 155	40.510	112.912	129.328	1.00173.71	K
ATOM	19456	CD2	LEU K 155	39.134	113.912	131.158	1.00173.26	K
ATOM	19457	C	LEU K 155	40.332	116.260	127.492	1.00172.40	K
ATOM	19458	O	LEU K 155	39.845	117.387	127.573	1.00171.99	K
ATOM	19459	N	ASN K 156	40.006	115.402	126.530	1.00173.41	K
ATOM	19460	CA	ASN K 156	39.050	115.765	125.491	1.00174.65	K
ATOM	19461	CB	ASN K 156	39.798	116.256	124.249	1.00173.60	K
ATOM	19462	CG	ASN K 156	40.868	117.277	124.578	1.00172.34	K
ATOM	19463	OD1	ASN K 156	40.582	118.344	125.120	1.00171.40	K
ATOM	19464	ND2	ASN K 156	42.114	116.949	124.256	1.00171.15	K
ATOM	19465	C	ASN K 156	38.138	114.606	125.097	1.00176.19	K
ATOM	19466	O	ASN K 156	38.603	113.485	124.882	1.00175.79	K
ATOM	19467	N	ALA K 157	36.840	114.885	125.001	1.00178.07	K
ATOM	19468	CA	ALA K 157	35.858	113.878	124.610	1.00179.51	K
ATOM	19469	CB	ALA K 157	34.449	114.365	124.937	1.00178.79	K
ATOM	19470	C	ALA K 157	36.009	113.667	123.106	1.00180.68	K
ATOM	19471	O	ALA K 157	35.044	113.363	122.400	1.00180.87	K
ATOM	19472	N	GLY K 158	37.242	113.830	122.636	1.00181.70	K
ATOM	19473	CA	GLY K 158	37.544	113.691	121.225	1.00182.68	K
ATOM	19474	C	GLY K 158	37.735	115.074	120.634	1.00183.14	K
ATOM	19475	O	GLY K 158	38.826	115.428	120.182	1.00182.90	K
ATOM	19476	N	THR K 159	36.661	115.857	120.654	1.00183.51	K
ATOM	19477	CA	THR K 159	36.666	117.219	120.131	1.00183.48	K
ATOM	19478	CB	THR K 159	35.631	117.385	118.999	1.00182.61	K
ATOM	19479	OG1	THR K 159	34.325	117.056	119.491	1.00182.48	K
ATOM	19480	CG2	THR K 159	35.967	116.472	117.833	1.00181.72	K
ATOM	19481	C	THR K 159	36.312	118.191	121.253	1.00183.72	K
ATOM	19482	O	THR K 159	36.822	119.312	121.308	1.00183.66	K
ATOM	19483	N	ARG K 160	35.434	117.744	122.146	1.00183.66	K
ATOM	19484	CA	ARG K 160	34.986	118.548	123.274	1.00183.48	K
ATOM	19485	CB	ARG K 160	33.621	118.041	123.746	1.00184.34	K
ATOM	19486	CG	ARG K 160	33.129	118.631	125.055	1.00185.70	K
ATOM	19487	CD	ARG K 160	33.152	120.153	125.067	1.00186.44	K
ATOM	19488	NE	ARG K 160	32.349	120.672	126.167	1.00187.40	K
ATOM	19489	CZ	ARG K 160	32.388	121.926	126.608	1.00187.65	K
ATOM	19490	NH1	ARG K 160	33.201	122.815	126.045	1.00187.67	K
ATOM	19491	NH2	ARG K 160	31.611	122.291	127.619	1.00187.57	K
ATOM	19492	C	ARG K 160	35.993	118.512	124.423	1.00182.85	K
ATOM	19493	O	ARG K 160	36.203	117.467	125.042	1.00182.86	K
ATOM	19494	N	VAL K 161	36.609	119.661	124.699	1.00181.59	K
ATOM	19495	CA	VAL K 161	37.602	119.779	125.764	1.00179.79	K
ATOM	19496	CB	VAL K 161	38.412	121.096	125.637	1.00179.54	K
ATOM	19497	CG1	VAL K 161	37.491	122.300	125.783	1.00179.31	K

ATOM	19498	CG2	VAL	K	161	39.510	121.134	126.691	1.00178.52	K
ATOM	19499	C	VAL	K	161	36.970	119.729	127.151	1.00178.65	K
ATOM	19500	O	VAL	K	161	35.964	120.388	127.418	1.00178.07	K
ATOM	19501	N	LEU	K	162	37.574	118.941	128.033	1.00177.80	K
ATOM	19502	CA	LEU	K	162	37.079	118.794	129.395	1.00176.36	K
ATOM	19503	CB	LEU	K	162	37.002	117.310	129.771	1.00177.11	K
ATOM	19504	CG	LEU	K	162	36.005	116.467	128.976	1.00177.30	K
ATOM	19505	CD1	LEU	K	162	35.977	115.039	129.510	1.00176.41	K
ATOM	19506	CD2	LEU	K	162	34.632	117.101	129.085	1.00176.97	K
ATOM	19507	C	LEU	K	162	37.948	119.530	130.406	1.00174.54	K
ATOM	19508	O	LEU	K	162	38.660	120.475	130.062	1.00174.24	K
ATOM	19509	N	GLU	K	163	37.884	119.085	131.656	1.00172.59	K
ATOM	19510	CA	GLU	K	163	38.659	119.696	132.723	1.00170.69	K
ATOM	19511	CB	GLU	K	163	37.718	120.232	133.801	1.00170.66	K
ATOM	19512	CG	GLU	K	163	38.390	121.136	134.807	1.00170.53	K
ATOM	19513	CD	GLU	K	163	37.394	121.985	135.561	1.00170.75	K
ATOM	19514	OE1	GLU	K	163	36.605	122.695	134.900	1.00170.73	K
ATOM	19515	OE2	GLU	K	163	37.401	121.945	136.809	1.00170.80	K
ATOM	19516	C	GLU	K	163	39.640	118.695	133.327	1.00169.37	K
ATOM	19517	O	GLU	K	163	39.349	117.501	133.419	1.00169.34	K
ATOM	19518	N	ASN	K	164	40.802	119.199	133.734	1.00167.70	K
ATOM	19519	CA	ASN	K	164	41.861	118.380	134.320	1.00165.92	K
ATOM	19520	CB	ASN	K	164	42.982	119.284	134.844	1.00164.03	K
ATOM	19521	CG	ASN	K	164	43.510	120.230	133.784	1.00161.70	K
ATOM	19522	OD1	ASN	K	164	44.085	119.802	132.785	1.00160.22	K
ATOM	19523	ND2	ASN	K	164	43.311	121.526	133.995	1.00159.72	K
ATOM	19524	C	ASN	K	164	41.358	117.485	135.449	1.00165.25	K
ATOM	19525	O	ASN	K	164	40.229	117.634	135.915	1.00165.87	K
ATOM	19526	N	ALA	K	165	42.206	116.559	135.890	1.00163.90	K
ATOM	19527	CA	ALA	K	165	41.843	115.640	136.962	1.00162.38	K
ATOM	19528	CB	ALA	K	165	40.939	114.546	136.416	1.00162.57	K
ATOM	19529	C	ALA	K	165	43.075	115.021	137.614	1.00161.40	K
ATOM	19530	O	ALA	K	165	44.153	114.995	137.024	1.00162.08	K
ATOM	19531	N	LEU	K	166	42.905	114.524	138.836	1.00160.05	K
ATOM	19532	CA	LEU	K	166	43.995	113.897	139.576	1.00159.50	K
ATOM	19533	CB	LEU	K	166	44.392	114.774	140.770	1.00156.32	K
ATOM	19534	CG	LEU	K	166	45.474	114.211	141.698	1.00154.20	K
ATOM	19535	CD1	LEU	K	166	46.771	114.035	140.931	1.00153.58	K
ATOM	19536	CD2	LEU	K	166	45.680	115.140	142.877	1.00152.29	K
ATOM	19537	C	LEU	K	166	43.586	112.506	140.064	1.00160.92	K
ATOM	19538	O	LEU	K	166	43.200	112.332	141.220	1.00160.99	K
ATOM	19539	N	VAL	K	167	43.675	111.521	139.174	1.00162.67	K
ATOM	19540	CA	VAL	K	167	43.308	110.145	139.499	1.00164.18	K
ATOM	19541	CB	VAL	K	167	43.273	109.270	138.225	1.00163.71	K
ATOM	19542	CG1	VAL	K	167	42.604	107.942	138.526	1.00164.25	K
ATOM	19543	CG2	VAL	K	167	42.536	110.000	137.112	1.00162.60	K
ATOM	19544	C	VAL	K	167	44.288	109.525	140.497	1.00165.81	K
ATOM	19545	O	VAL	K	167	45.467	109.341	140.195	1.00165.48	K
ATOM	19546	N	PRO	K	168	43.805	109.196	141.706	1.00167.79	K
ATOM	19547	CD	PRO	K	168	42.414	109.378	142.158	1.00167.79	K
ATOM	19548	CA	PRO	K	168	44.620	108.594	142.767	1.00169.84	K
ATOM	19549	CB	PRO	K	168	43.684	108.631	143.971	1.00169.21	K
ATOM	19550	CG	PRO	K	168	42.339	108.449	143.342	1.00167.86	K
ATOM	19551	C	PRO	K	168	45.101	107.175	142.443	1.00172.20	K
ATOM	19552	O	PRO	K	168	44.562	106.517	141.551	1.00173.01	K
ATOM	19553	N	PRO	K	169	46.129	106.690	143.167	1.00173.67	K
ATOM	19554	CD	PRO	K	169	46.886	107.440	144.180	1.00173.72	K
ATOM	19555	CA	PRO	K	169	46.709	105.354	142.988	1.00175.12	K

ATOM	19556	CB	PRO	K	169	47.819	105.316	144.036	1.00174.48	K
ATOM	19557	CG	PRO	K	169	48.219	106.739	144.156	1.00174.05	K
ATOM	19558	C	PRO	K	169	45.669	104.269	143.232	1.00176.71	K
ATOM	19559	O	PRO	K	169	45.043	104.234	144.294	1.00176.61	K
ATOM	19560	N	MET	K	170	45.491	103.385	142.255	1.00178.22	K
ATOM	19561	CA	MET	K	170	44.518	102.307	142.377	1.00179.09	K
ATOM	19562	CB	MET	K	170	44.935	101.356	143.500	1.00179.93	K
ATOM	19563	CG	MET	K	170	46.148	100.512	143.161	1.00180.25	K
ATOM	19564	SD	MET	K	170	46.967	99.853	144.619	1.00180.92	K
ATOM	19565	CE	MET	K	170	48.438	100.846	144.619	1.00179.85	K
ATOM	19566	C	MET	K	170	43.142	102.888	142.665	1.00179.16	K
ATOM	19567	O	MET	K	170	42.345	102.303	143.400	1.00179.26	K
ATOM	19568	N	GLY	K	171	42.876	104.051	142.082	1.00179.04	K
ATOM	19569	CA	GLY	K	171	41.601	104.707	142.280	1.00179.22	K
ATOM	19570	C	GLY	K	171	41.026	105.193	140.969	1.00179.69	K
ATOM	19571	O	GLY	K	171	41.511	104.835	139.895	1.00179.52	K
ATOM	19572	N	GLU	K	172	39.987	106.014	141.058	1.00180.51	K
ATOM	19573	CA	GLU	K	172	39.333	106.558	139.879	1.00181.09	K
ATOM	19574	CB	GLU	K	172	38.266	105.575	139.379	1.00182.08	K
ATOM	19575	CG	GLU	K	172	37.419	104.948	140.488	1.00183.55	K
ATOM	19576	CD	GLU	K	172	36.576	103.776	140.000	1.00183.60	K
ATOM	19577	OE1	GLU	K	172	35.688	103.992	139.146	1.00183.83	K
ATOM	19578	OE2	GLU	K	172	36.804	102.638	140.471	1.00182.74	K
ATOM	19579	C	GLU	K	172	38.713	107.915	140.184	1.00181.24	K
ATOM	19580	O	GLU	K	172	38.542	108.282	141.347	1.00180.45	K
ATOM	19581	N	SER	K	173	38.389	108.659	139.131	1.00182.23	K
ATOM	19582	CA	SER	K	173	37.792	109.982	139.279	1.00183.15	K
ATOM	19583	CB	SER	K	173	38.892	111.030	139.455	1.00183.06	K
ATOM	19584	OG	SER	K	173	39.696	110.724	140.582	1.00182.60	K
ATOM	19585	C	SER	K	173	36.931	110.317	138.063	1.00183.66	K
ATOM	19586	O	SER	K	173	37.372	110.183	136.921	1.00183.16	K
ATOM	19587	N	ALA	K	174	35.703	110.756	138.314	1.00184.64	K
ATOM	19588	CA	ALA	K	174	34.781	111.086	137.236	1.00185.31	K
ATOM	19589	CB	ALA	K	174	33.384	110.568	137.580	1.00186.19	K
ATOM	19590	C	ALA	K	174	34.711	112.576	136.904	1.00185.21	K
ATOM	19591	O	ALA	K	174	34.468	113.413	137.775	1.00184.78	K
ATOM	19592	N	VAL	K	175	34.927	112.891	135.632	1.00185.33	K
ATOM	19593	CA	VAL	K	175	34.865	114.258	135.150	1.00185.78	K
ATOM	19594	CB	VAL	K	175	36.064	114.577	134.243	1.00185.48	K
ATOM	19595	CG1	VAL	K	175	35.991	116.019	133.765	1.00185.03	K
ATOM	19596	CG2	VAL	K	175	37.369	114.326	134.973	1.00184.98	K
ATOM	19597	C	VAL	K	175	33.575	114.420	134.358	1.00186.77	K
ATOM	19598	O	VAL	K	175	33.108	113.476	133.722	1.00186.83	K
ATOM	19599	N	LYS	K	176	33.007	115.622	134.411	1.00187.95	K
ATOM	19600	CA	LYS	K	176	31.746	115.920	133.734	1.00189.05	K
ATOM	19601	CB	LYS	K	176	31.346	117.387	133.957	1.00187.97	K
ATOM	19602	CG	LYS	K	176	30.993	117.705	135.402	1.00186.84	K
ATOM	19603	CD	LYS	K	176	32.210	117.572	136.297	1.00186.80	K
ATOM	19604	CE	LYS	K	176	31.797	117.279	137.730	1.00187.37	K
ATOM	19605	NZ	LYS	K	176	31.137	115.928	137.838	1.00187.15	K
ATOM	19606	C	LYS	K	176	31.761	115.636	132.228	1.00190.39	K
ATOM	19607	O	LYS	K	176	32.353	116.385	131.453	1.00190.99	K
ATOM	19608	N	LEU	K	177	31.102	114.559	131.809	1.00191.30	K
ATOM	19609	CA	LEU	K	177	31.022	114.212	130.392	1.00192.17	K
ATOM	19610	CB	LEU	K	177	30.695	112.727	130.235	1.00192.76	K
ATOM	19611	CG	LEU	K	177	30.699	112.165	128.806	1.00193.36	K
ATOM	19612	CD1	LEU	K	177	31.767	112.849	127.950	1.00193.27	K
ATOM	19613	CD2	LEU	K	177	30.974	110.663	128.858	1.00193.72	K

ATOM	19614	C	LEU	K	177	29.938	115.093	129.783	1.00192.65	K
ATOM	19615	O	LEU	K	177	28.747	114.896	130.017	1.00192.51	K
ATOM	19616	N	PRO	K	178	30.357	116.077	128.979	1.00193.27	K
ATOM	19617	CD	PRO	K	178	31.751	116.126	128.499	1.00193.45	K
ATOM	19618	CA	PRO	K	178	29.551	117.077	128.276	1.00193.72	K
ATOM	19619	CB	PRO	K	178	30.606	117.874	127.520	1.00193.58	K
ATOM	19620	CG	PRO	K	178	31.608	116.821	127.175	1.00193.58	K
ATOM	19621	C	PRO	K	178	28.437	116.591	127.349	1.00194.14	K
ATOM	19622	O	PRO	K	178	27.510	117.347	127.042	1.00193.95	K
ATOM	19623	N	SER	K	179	28.520	115.343	126.901	1.00194.57	K
ATOM	19624	CA	SER	K	179	27.529	114.785	125.974	1.00194.79	K
ATOM	19625	CB	SER	K	179	26.095	115.070	126.446	1.00193.91	K
ATOM	19626	OG	SER	K	179	25.133	114.410	125.632	1.00193.66	K
ATOM	19627	C	SER	K	179	27.750	115.333	124.567	1.00195.40	K
ATOM	19628	O	SER	K	179	26.950	115.098	123.649	1.00195.30	K
ATOM	19629	N	ASP	K	180	28.835	116.095	124.431	1.00195.78	K
ATOM	19630	CA	ASP	K	180	29.275	116.670	123.153	1.00195.62	K
ATOM	19631	CB	ASP	K	180	29.721	118.127	123.342	1.00195.35	K
ATOM	19632	CG	ASP	K	180	28.613	119.019	123.878	1.00194.36	K
ATOM	19633	OD1	ASP	K	180	28.885	120.226	124.111	1.00193.02	K
ATOM	19634	OD2	ASP	K	180	27.476	118.527	124.065	1.00193.96	K
ATOM	19635	C	ASP	K	180	30.472	115.763	122.902	1.00195.31	K
ATOM	19636	O	ASP	K	180	31.512	116.146	122.379	1.00194.94	K
ATOM	19637	N	ALA	K	181	30.235	114.527	123.317	1.00195.41	K
ATOM	19638	CA	ALA	K	181	31.150	113.395	123.317	1.00195.57	K
ATOM	19639	CB	ALA	K	181	30.456	112.245	123.951	1.00195.01	K
ATOM	19640	C	ALA	K	181	31.762	112.919	122.004	1.00195.68	K
ATOM	19641	O	ALA	K	181	32.229	113.704	121.180	1.00196.02	K
ATOM	19642	N	GLY	K	182	31.807	111.590	121.886	1.00195.45	K
ATOM	19643	CA	GLY	K	182	32.371	110.891	120.746	1.00195.41	K
ATOM	19644	C	GLY	K	182	32.765	109.523	121.271	1.00195.66	K
ATOM	19645	O	GLY	K	182	31.953	108.596	121.292	1.00195.46	K
ATOM	19646	N	SER	K	183	34.013	109.426	121.714	1.00196.30	K
ATOM	19647	CA	SER	K	183	34.595	108.213	122.269	1.00196.93	K
ATOM	19648	CB	SER	K	183	34.000	106.945	121.638	1.00197.30	K
ATOM	19649	OG	SER	K	183	33.581	106.025	122.639	1.00197.43	K
ATOM	19650	C	SER	K	183	36.093	108.275	121.996	1.00196.78	K
ATOM	19651	O	SER	K	183	36.878	107.465	122.500	1.00196.82	K
ATOM	19652	N	ASN	K	184	36.481	109.253	121.185	1.00196.05	K
ATOM	19653	CA	ASN	K	184	37.882	109.464	120.836	1.00194.83	K
ATOM	19654	CB	ASN	K	184	37.999	110.381	119.604	1.00195.76	K
ATOM	19655	CG	ASN	K	184	39.447	110.690	119.231	1.00196.29	K
ATOM	19656	OD1	ASN	K	184	40.232	109.783	118.953	1.00196.58	K
ATOM	19657	ND2	ASN	K	184	39.803	111.976	119.228	1.00195.90	K
ATOM	19658	C	ASN	K	184	38.602	110.103	122.014	1.00193.15	K
ATOM	19659	O	ASN	K	184	39.380	111.046	121.846	1.00193.39	K
ATOM	19660	N	ILE	K	185	38.326	109.595	123.210	1.00190.79	K
ATOM	19661	CA	ILE	K	185	38.955	110.132	124.408	1.00188.44	K
ATOM	19662	CB	ILE	K	185	38.715	109.226	125.636	1.00188.17	K
ATOM	19663	CG2	ILE	K	185	39.373	109.849	126.869	1.00186.99	K
ATOM	19664	CG1	ILE	K	185	37.214	109.054	125.885	1.00187.61	K
ATOM	19665	CD1	ILE	K	185	36.876	108.163	127.067	1.00186.12	K
ATOM	19666	C	ILE	K	185	40.461	110.289	124.204	1.00186.47	K
ATOM	19667	O	ILE	K	185	41.128	109.373	123.730	1.00185.93	K
ATOM	19668	N	THR	K	186	40.979	111.466	124.546	1.00184.40	K
ATOM	19669	CA	THR	K	186	42.401	111.770	124.414	1.00182.16	K
ATOM	19670	CB	THR	K	186	42.659	112.701	123.219	1.00182.50	K
ATOM	19671	OG1	THR	K	186	41.905	113.908	123.379	1.00182.73	K

ATOM	19672	CG2	THR	K	186	42.248	112.025	121.922	1.00181.63	K
ATOM	19673	C	THR	K	186	42.884	112.452	125.690	1.00180.17	K
ATOM	19674	O	THR	K	186	42.096	113.099	126.381	1.00180.33	K
ATOM	19675	N	TYR	K	187	44.172	112.321	126.005	1.00177.57	K
ATOM	19676	CA	TYR	K	187	44.685	112.925	127.229	1.00174.97	K
ATOM	19677	CB	TYR	K	187	44.162	112.141	128.435	1.00175.70	K
ATOM	19678	CG	TYR	K	187	44.641	110.703	128.490	1.00176.24	K
ATOM	19679	CD1	TYR	K	187	45.829	110.365	129.141	1.00175.95	K
ATOM	19680	CE1	TYR	K	187	46.282	109.044	129.177	1.00176.61	K
ATOM	19681	CD2	TYR	K	187	43.915	109.684	127.873	1.00176.41	K
ATOM	19682	CE2	TYR	K	187	44.358	108.361	127.900	1.00176.78	K
ATOM	19683	CZ	TYR	K	187	45.540	108.048	128.553	1.00177.13	K
ATOM	19684	OH	TYR	K	187	45.978	106.741	128.571	1.00177.17	K
ATOM	19685	C	TYR	K	187	46.201	113.023	127.332	1.00172.60	K
ATOM	19686	O	TYR	K	187	46.938	112.238	126.735	1.00172.81	K
ATOM	19687	N	ARG	K	188	46.651	114.005	128.105	1.00169.19	K
ATOM	19688	CA	ARG	K	188	48.071	114.222	128.351	1.00166.10	K
ATOM	19689	CB	ARG	K	188	48.542	115.530	127.709	1.00165.39	K
ATOM	19690	CG	ARG	K	188	48.450	115.550	126.188	1.00164.35	K
ATOM	19691	CD	ARG	K	188	49.038	116.834	125.614	1.00163.33	K
ATOM	19692	NE	ARG	K	188	50.493	116.895	125.720	1.00161.33	K
ATOM	19693	CZ	ARG	K	188	51.328	116.186	124.967	1.00160.70	K
ATOM	19694	NH1	ARG	K	188	50.857	115.357	124.047	1.00160.85	K
ATOM	19695	NH2	ARG	K	188	52.638	116.312	125.127	1.00160.75	K
ATOM	19696	C	ARG	K	188	48.237	114.293	129.866	1.00164.28	K
ATOM	19697	O	ARG	K	188	47.326	114.724	130.571	1.00163.72	K
ATOM	19698	N	THR	K	189	49.389	113.864	130.368	1.00162.86	K
ATOM	19699	CA	THR	K	189	49.632	113.881	131.807	1.00161.16	K
ATOM	19700	CB	THR	K	189	49.768	112.455	132.370	1.00162.76	K
ATOM	19701	OG1	THR	K	189	51.070	111.943	132.064	1.00164.16	K
ATOM	19702	CG2	THR	K	189	48.716	111.537	131.755	1.00164.77	K
ATOM	19703	C	THR	K	189	50.897	114.646	132.170	1.00158.83	K
ATOM	19704	O	THR	K	189	51.637	115.098	131.297	1.00158.60	K
ATOM	19705	N	ILE	K	190	51.139	114.778	133.470	1.00156.69	K
ATOM	19706	CA	ILE	K	190	52.313	115.483	133.974	1.00154.34	K
ATOM	19707	CB	ILE	K	190	51.914	116.665	134.883	1.00152.69	K
ATOM	19708	CG2	ILE	K	190	53.153	117.449	135.285	1.00151.85	K
ATOM	19709	CG1	ILE	K	190	50.943	117.588	134.152	1.00150.61	K
ATOM	19710	CD1	ILE	K	190	50.455	118.738	134.998	1.00149.19	K
ATOM	19711	C	ILE	K	190	53.187	114.528	134.782	1.00153.14	K
ATOM	19712	O	ILE	K	190	52.770	114.023	135.825	1.00153.19	K
ATOM	19713	N	ASN	K	191	54.401	114.291	134.297	1.00151.30	K
ATOM	19714	CA	ASN	K	191	55.326	113.391	134.969	1.00149.67	K
ATOM	19715	CB	ASN	K	191	56.376	112.888	133.984	1.00149.14	K
ATOM	19716	CG	ASN	K	191	57.067	114.013	133.261	1.00148.90	K
ATOM	19717	OD1	ASN	K	191	57.662	114.892	133.883	1.00148.55	K
ATOM	19718	ND2	ASN	K	191	56.990	113.998	131.935	1.00149.62	K
ATOM	19719	C	ASN	K	191	56.012	114.032	136.168	1.00148.74	K
ATOM	19720	O	ASN	K	191	55.617	115.106	136.622	1.00147.38	K
ATOM	19721	N	ASP	K	192	57.051	113.361	136.660	1.00149.11	K
ATOM	19722	CA	ASP	K	192	57.814	113.795	137.831	1.00148.80	K
ATOM	19723	CB	ASP	K	192	58.829	112.716	138.227	1.00151.23	K
ATOM	19724	CG	ASP	K	192	58.193	111.350	138.433	1.00153.88	K
ATOM	19725	OD1	ASP	K	192	58.891	110.448	138.944	1.00154.50	K
ATOM	19726	OD2	ASP	K	192	57.006	111.176	138.078	1.00155.78	K
ATOM	19727	C	ASP	K	192	58.556	115.125	137.722	1.00146.83	K
ATOM	19728	O	ASP	K	192	58.813	115.774	138.737	1.00145.34	K
ATOM	19729	N	TYR	K	193	58.911	115.529	136.508	1.00145.88	K

ATOM	19730	CA	TYR	K	193	59.646	116.777	136.324	1.00145.31	K
ATOM	19731	CB	TYR	K	193	60.719	116.595	135.248	1.00143.16	K
ATOM	19732	CG	TYR	K	193	61.408	115.252	135.318	1.00141.38	K
ATOM	19733	CD1	TYR	K	193	60.965	114.180	134.541	1.00140.14	K
ATOM	19734	CE1	TYR	K	193	61.570	112.931	134.626	1.00138.54	K
ATOM	19735	CD2	TYR	K	193	62.480	115.040	136.185	1.00140.23	K
ATOM	19736	CE2	TYR	K	193	63.093	113.795	136.280	1.00138.55	K
ATOM	19737	CZ	TYR	K	193	62.633	112.747	135.498	1.00138.64	K
ATOM	19738	OH	TYR	K	193	63.237	111.514	135.587	1.00137.86	K
ATOM	19739	C	TYR	K	193	58.723	117.926	135.949	1.00146.39	K
ATOM	19740	O	TYR	K	193	59.162	119.068	135.812	1.00145.70	K
ATOM	19741	N	GLY	K	194	57.438	117.616	135.800	1.00148.31	K
ATOM	19742	CA	GLY	K	194	56.464	118.629	135.439	1.00148.86	K
ATOM	19743	C	GLY	K	194	56.366	118.775	133.935	1.00148.92	K
ATOM	19744	O	GLY	K	194	56.182	119.878	133.419	1.00148.83	K
ATOM	19745	N	ALA	K	195	56.486	117.654	133.229	1.00148.93	K
ATOM	19746	CA	ALA	K	195	56.429	117.656	131.771	1.00149.37	K
ATOM	19747	CB	ALA	K	195	57.757	117.165	131.209	1.00148.72	K
ATOM	19748	C	ALA	K	195	55.278	116.816	131.210	1.00149.80	K
ATOM	19749	O	ALA	K	195	55.049	115.683	131.636	1.00150.02	K
ATOM	19750	N	LEU	K	196	54.557	117.388	130.249	1.00150.33	K
ATOM	19751	CA	LEU	K	196	53.427	116.721	129.608	1.00151.16	K
ATOM	19752	CB	LEU	K	196	52.759	117.663	128.601	1.00150.96	K
ATOM	19753	CG	LEU	K	196	51.798	118.744	129.094	1.00150.72	K
ATOM	19754	CD1	LEU	K	196	51.486	119.713	127.964	1.00149.85	K
ATOM	19755	CD2	LEU	K	196	50.528	118.087	129.596	1.00152.02	K
ATOM	19756	C	LEU	K	196	53.849	115.458	128.874	1.00152.20	K
ATOM	19757	O	LEU	K	196	54.656	115.517	127.950	1.00152.79	K
ATOM	19758	N	THR	K	197	53.301	114.318	129.277	1.00153.55	K
ATOM	19759	CA	THR	K	197	53.624	113.061	128.612	1.00155.53	K
ATOM	19760	CB	THR	K	197	53.083	111.854	129.402	1.00154.37	K
ATOM	19761	OG1	THR	K	197	51.652	111.893	129.426	1.00153.20	K
ATOM	19762	CG2	THR	K	197	53.611	111.883	130.826	1.00153.92	K
ATOM	19763	C	THR	K	197	52.976	113.111	127.225	1.00157.69	K
ATOM	19764	O	THR	K	197	52.125	113.967	126.968	1.00157.79	K
ATOM	19765	N	PRO	K	198	53.365	112.201	126.311	1.00159.10	K
ATOM	19766	CD	PRO	K	198	54.268	111.046	126.472	1.00158.79	K
ATOM	19767	CA	PRO	K	198	52.778	112.213	124.966	1.00159.80	K
ATOM	19768	CB	PRO	K	198	53.553	111.114	124.245	1.00158.37	K
ATOM	19769	CG	PRO	K	198	53.837	110.142	125.338	1.00157.44	K
ATOM	19770	C	PRO	K	198	51.270	111.985	124.929	1.00161.25	K
ATOM	19771	O	PRO	K	198	50.728	111.186	125.696	1.00161.96	K
ATOM	19772	N	LYS	K	199	50.603	112.696	124.026	1.00162.62	K
ATOM	19773	CA	LYS	K	199	49.158	112.591	123.862	1.00164.54	K
ATOM	19774	CB	LYS	K	199	48.683	113.605	122.818	1.00163.13	K
ATOM	19775	CG	LYS	K	199	47.293	113.355	122.275	1.00160.83	K
ATOM	19776	CD	LYS	K	199	46.965	114.353	121.185	1.00159.57	K
ATOM	19777	CE	LYS	K	199	45.790	113.876	120.354	1.00159.30	K
ATOM	19778	NZ	LYS	K	199	44.604	113.589	121.203	1.00159.40	K
ATOM	19779	C	LYS	K	199	48.756	111.179	123.444	1.00166.61	K
ATOM	19780	O	LYS	K	199	49.182	110.687	122.401	1.00166.61	K
ATOM	19781	N	MET	K	200	47.935	110.532	124.264	1.00169.01	K
ATOM	19782	CA	MET	K	200	47.479	109.174	123.984	1.00171.22	K
ATOM	19783	CB	MET	K	200	47.954	108.238	125.097	1.00170.97	K
ATOM	19784	CG	MET	K	200	48.295	108.957	126.395	1.00171.07	K
ATOM	19785	SD	MET	K	200	49.211	107.921	127.554	1.00171.54	K
ATOM	19786	CE	MET	K	200	50.915	108.293	127.087	1.00171.17	K
ATOM	19787	C	MET	K	200	45.960	109.118	123.837	1.00173.00	K

ATOM	19788	O	MET	K	200	45.285	110.143	123.943	1.00173.37	K
ATOM	19789	N	THR	K	201	45.423	107.924	123.587	1.00174.59	K
ATOM	19790	CA	THR	K	201	43.980	107.763	123.406	1.00175.76	K
ATOM	19791	CB	THR	K	201	43.661	106.925	122.135	1.00175.55	K
ATOM	19792	OG1	THR	K	201	44.320	107.499	120.999	1.00174.76	K
ATOM	19793	CG2	THR	K	201	42.157	106.907	121.867	1.00174.80	K
ATOM	19794	C	THR	K	201	43.287	107.114	124.605	1.00176.35	K
ATOM	19795	O	THR	K	201	43.883	106.316	125.334	1.00175.98	K
ATOM	19796	N	GLY	K	202	42.020	107.474	124.793	1.00176.72	K
ATOM	19797	CA	GLY	K	202	41.232	106.940	125.885	1.00176.60	K
ATOM	19798	C	GLY	K	202	40.830	105.504	125.634	1.00176.66	K
ATOM	19799	O	GLY	K	202	40.076	105.211	124.704	1.00176.19	K
ATOM	19800	N	VAL	K	203	41.338	104.611	126.475	1.00177.37	K
ATOM	19801	CA	VAL	K	203	41.067	103.183	126.367	1.00178.34	K
ATOM	19802	CB	VAL	K	203	42.341	102.365	126.686	1.00178.58	K
ATOM	19803	CG1	VAL	K	203	42.086	100.883	126.460	1.00178.61	K
ATOM	19804	CG2	VAL	K	203	43.500	102.855	125.827	1.00178.56	K
ATOM	19805	C	VAL	K	203	39.955	102.745	127.322	1.00178.43	K
ATOM	19806	O	VAL	K	203	40.223	102.098	128.337	1.00178.13	K
ATOM	19807	N	MET	K	204	38.713	103.094	126.992	1.00178.51	K
ATOM	19808	CA	MET	K	204	37.569	102.729	127.826	1.00178.48	K
ATOM	19809	CB	MET	K	204	36.248	103.022	127.102	1.00177.77	K
ATOM	19810	CG	MET	K	204	35.974	104.495	126.822	1.00177.77	K
ATOM	19811	SD	MET	K	204	37.073	105.207	125.573	1.00177.83	K
ATOM	19812	CE	MET	K	204	36.175	104.813	124.076	1.00177.47	K
ATOM	19813	C	MET	K	204	37.626	101.250	128.190	1.00179.08	K
ATOM	19814	O	MET	K	204	37.835	100.399	127.328	1.00178.53	K
ATOM	19815	N	GLU	K	205	37.449	100.951	129.473	1.00180.54	K
ATOM	19816	CA	GLU	K	205	37.476	99.571	129.945	1.00182.08	K
ATOM	19817	CB	GLU	K	205	38.040	99.495	131.367	1.00182.91	K
ATOM	19818	CG	GLU	K	205	37.213	100.240	132.405	1.00183.85	K
ATOM	19819	CD	GLU	K	205	37.046	99.459	133.695	1.00183.98	K
ATOM	19820	OE1	GLU	K	205	36.399	99.983	134.627	1.00183.91	K
ATOM	19821	OE2	GLU	K	205	37.558	98.320	133.771	1.00184.55	K
ATOM	19822	C	GLU	K	205	36.070	98.978	129.926	1.00182.54	K
ATOM	19823	O	GLU	K	205	35.940	97.787	129.569	1.00182.97	K
ATOM	19824	OXT	GLU	K	205	35.122	99.713	130.283	1.00182.89	K
ATOM	19825	CB	PHE	L	1	99.361	111.036	116.371	1.00 85.78	L
ATOM	19826	CG	PHE	L	1	98.291	111.691	117.205	1.00 82.51	L
ATOM	19827	CD1	PHE	L	1	96.982	111.757	116.753	1.00 81.03	L
ATOM	19828	CD2	PHE	L	1	98.590	112.220	118.454	1.00 81.61	L
ATOM	19829	CE1	PHE	L	1	95.984	112.331	117.526	1.00 78.09	L
ATOM	19830	CE2	PHE	L	1	97.602	112.794	119.235	1.00 79.33	L
ATOM	19831	CZ	PHE	L	1	96.295	112.852	118.769	1.00 78.15	L
ATOM	19832	C	PHE	L	1	98.066	108.902	116.137	1.00 89.25	L
ATOM	19833	O	PHE	L	1	97.704	108.840	114.956	1.00 90.31	L
ATOM	19834	N	PHE	L	1	100.500	108.960	115.664	1.00 87.32	L
ATOM	19835	CA	PHE	L	1	99.412	109.510	116.514	1.00 86.76	L
ATOM	19836	N	ALA	L	2	97.336	108.445	117.151	1.00 91.43	L
ATOM	19837	CA	ALA	L	2	96.017	107.847	116.962	1.00 93.08	L
ATOM	19838	CB	ALA	L	2	96.151	106.389	116.533	1.00 93.43	L
ATOM	19839	C	ALA	L	2	95.233	107.950	118.267	1.00 94.08	L
ATOM	19840	O	ALA	L	2	95.813	108.175	119.337	1.00 92.16	L
ATOM	19841	N	CYS	L	3	93.916	107.787	118.173	1.00 95.99	L
ATOM	19842	CA	CYS	L	3	93.047	107.883	119.343	1.00 97.62	L
ATOM	19843	C	CYS	L	3	91.990	106.785	119.336	1.00100.60	L
ATOM	19844	O	CYS	L	3	91.822	106.078	118.341	1.00102.18	L
ATOM	19845	CB	CYS	L	3	92.335	109.236	119.359	1.00 94.71	L

ATOM	19846	SG	CYS	L	3	93.371	110.679	118.972	1.00	87.08	L
ATOM	19847	N	LYS	L	4	91.271	106.658	120.448	1.00	102.63	L
ATOM	19848	CA	LYS	L	4	90.216	105.659	120.567	1.00	104.34	L
ATOM	19849	CB	LYS	L	4	90.824	104.265	120.771	1.00	106.85	L
ATOM	19850	CG	LYS	L	4	91.633	104.076	122.053	1.00	109.97	L
ATOM	19851	CD	LYS	L	4	92.390	102.743	122.034	1.00	112.40	L
ATOM	19852	CE	LYS	L	4	91.454	101.551	121.791	1.00	111.27	L
ATOM	19853	NZ	LYS	L	4	92.190	100.265	121.585	1.00	108.32	L
ATOM	19854	C	LYS	L	4	89.248	105.982	121.702	1.00	104.09	L
ATOM	19855	O	LYS	L	4	89.629	106.589	122.703	1.00	103.80	L
ATOM	19856	N	THR	L	5	87.993	105.573	121.531	1.00	103.75	L
ATOM	19857	CA	THR	L	5	86.955	105.814	122.527	1.00	104.51	L
ATOM	19858	CB	THR	L	5	85.578	106.054	121.856	1.00	104.42	L
ATOM	19859	OG1	THR	L	5	85.593	107.315	121.179	1.00	102.22	L
ATOM	19860	CG2	THR	L	5	84.459	106.062	122.892	1.00	106.36	L
ATOM	19861	C	THR	L	5	86.821	104.661	123.513	1.00	105.23	L
ATOM	19862	O	THR	L	5	86.799	103.492	123.126	1.00	107.20	L
ATOM	19863	N	ALA	L	6	86.725	105.009	124.790	1.00	104.98	L
ATOM	19864	CA	ALA	L	6	86.582	104.032	125.859	1.00	105.84	L
ATOM	19865	CB	ALA	L	6	86.279	104.749	127.167	1.00	105.25	L
ATOM	19866	C	ALA	L	6	85.488	103.005	125.562	1.00	106.96	L
ATOM	19867	O	ALA	L	6	85.456	101.934	126.169	1.00	107.63	L
ATOM	19868	N	ASN	L	7	84.592	103.329	124.634	1.00	108.01	L
ATOM	19869	CA	ASN	L	7	83.504	102.423	124.281	1.00	108.90	L
ATOM	19870	CB	ASN	L	7	82.269	103.223	123.839	1.00	112.03	L
ATOM	19871	CG	ASN	L	7	80.990	102.385	123.833	1.00	112.79	L
ATOM	19872	OD1	ASN	L	7	80.572	101.862	124.870	1.00	110.95	L
ATOM	19873	ND2	ASN	L	7	80.362	102.263	122.664	1.00	113.14	L
ATOM	19874	C	ASN	L	7	83.937	101.484	123.162	1.00	108.10	L
ATOM	19875	O	ASN	L	7	83.285	100.472	122.895	1.00	107.71	L
ATOM	19876	N	GLY	L	8	85.038	101.822	122.502	1.00	106.78	L
ATOM	19877	CA	GLY	L	8	85.512	100.973	121.433	1.00	106.50	L
ATOM	19878	C	GLY	L	8	86.151	101.712	120.281	1.00	106.39	L
ATOM	19879	O	GLY	L	8	87.324	102.075	120.357	1.00	106.74	L
ATOM	19880	N	THR	L	9	85.374	101.937	119.223	1.00	105.72	L
ATOM	19881	CA	THR	L	9	85.851	102.609	118.013	1.00	104.59	L
ATOM	19882	CB	THR	L	9	84.744	103.454	117.351	1.00	104.94	L
ATOM	19883	OG1	THR	L	9	83.597	102.633	117.103	1.00	106.69	L
ATOM	19884	CG2	THR	L	9	85.242	104.025	116.023	1.00	103.99	L
ATOM	19885	C	THR	L	9	87.056	103.505	118.241	1.00	103.46	L
ATOM	19886	O	THR	L	9	87.113	104.258	119.213	1.00	103.11	L
ATOM	19887	N	ALA	L	10	88.017	103.416	117.329	1.00	102.01	L
ATOM	19888	CA	ALA	L	10	89.235	104.205	117.419	1.00	101.41	L
ATOM	19889	CB	ALA	L	10	90.413	103.294	117.709	1.00	100.96	L
ATOM	19890	C	ALA	L	10	89.481	104.982	116.131	1.00	101.17	L
ATOM	19891	O	ALA	L	10	88.967	104.623	115.065	1.00	101.79	L
ATOM	19892	N	ILE	L	11	90.262	106.052	116.238	1.00	99.40	L
ATOM	19893	CA	ILE	L	11	90.585	106.876	115.085	1.00	99.13	L
ATOM	19894	CB	ILE	L	11	90.323	108.363	115.364	1.00	97.84	L
ATOM	19895	CG2	ILE	L	11	90.621	109.172	114.124	1.00	95.10	L
ATOM	19896	CG1	ILE	L	11	88.860	108.563	115.771	1.00	95.84	L
ATOM	19897	CD1	ILE	L	11	88.485	109.996	116.073	1.00	93.86	L
ATOM	19898	C	ILE	L	11	92.052	106.662	114.746	1.00	100.38	L
ATOM	19899	O	ILE	L	11	92.945	107.049	115.506	1.00	99.74	L
ATOM	19900	N	PRO	L	12	92.314	106.041	113.584	1.00	102.35	L
ATOM	19901	CD	PRO	L	12	91.263	105.685	112.610	1.00	101.67	L
ATOM	19902	CA	PRO	L	12	93.639	105.713	113.048	1.00	103.80	L
ATOM	19903	CB	PRO	L	12	93.305	104.901	111.801	1.00	102.83	L

ATOM	19904	CG	PRO	L	12	92.045	105.552	111.326	1.00101.79	L
ATOM	19905	C	PRO	L	12	94.598	106.858	112.742	1.00105.11	L
ATOM	19906	O	PRO	L	12	94.250	108.034	112.837	1.00105.52	L
ATOM	19907	N	ILE	L	13	95.818	106.476	112.379	1.00106.74	L
ATOM	19908	CA	ILE	L	13	96.879	107.409	112.028	1.00107.56	L
ATOM	19909	CB	ILE	L	13	98.197	106.653	111.723	1.00105.33	L
ATOM	19910	CG2	ILE	L	13	99.211	107.595	111.096	1.00104.18	L
ATOM	19911	CG1	ILE	L	13	98.738	106.011	112.999	1.00102.77	L
ATOM	19912	CD1	ILE	L	13	100.021	105.251	112.801	1.00100.31	L
ATOM	19913	C	ILE	L	13	96.469	108.174	110.777	1.00110.10	L
ATOM	19914	O	ILE	L	13	95.992	107.580	109.806	1.00110.38	L
ATOM	19915	N	GLY	L	14	96.650	109.490	110.801	1.00111.68	L
ATOM	19916	CA	GLY	L	14	96.304	110.292	109.642	1.00112.11	L
ATOM	19917	C	GLY	L	14	94.878	110.805	109.592	1.00111.79	L
ATOM	19918	O	GLY	L	14	94.383	111.159	108.522	1.00111.74	L
ATOM	19919	N	GLY	L	15	94.212	110.845	110.740	1.00111.65	L
ATOM	19920	CA	GLY	L	15	92.850	111.341	110.772	1.00112.07	L
ATOM	19921	C	GLY	L	15	91.805	110.304	111.121	1.00112.04	L
ATOM	19922	O	GLY	L	15	92.133	109.207	111.572	1.00112.91	L
ATOM	19923	N	GLY	L	16	90.540	110.663	110.913	1.00111.81	L
ATOM	19924	CA	GLY	L	16	89.440	109.763	111.207	1.00110.51	L
ATOM	19925	C	GLY	L	16	88.178	110.473	111.665	1.00109.43	L
ATOM	19926	O	GLY	L	16	88.013	111.677	111.454	1.00109.35	L
ATOM	19927	N	SER	L	17	87.284	109.712	112.289	1.00108.67	L
ATOM	19928	CA	SER	L	17	86.020	110.233	112.793	1.00109.27	L
ATOM	19929	CB	SER	L	17	85.079	110.588	111.635	1.00110.49	L
ATOM	19930	OG	SER	L	17	85.593	111.655	110.855	1.00111.42	L
ATOM	19931	C	SER	L	17	85.379	109.161	113.662	1.00108.97	L
ATOM	19932	O	SER	L	17	85.398	107.982	113.312	1.00108.36	L
ATOM	19933	N	ALA	L	18	84.814	109.573	114.792	1.00109.25	L
ATOM	19934	CA	ALA	L	18	84.180	108.633	115.708	1.00109.82	L
ATOM	19935	CB	ALA	L	18	85.122	108.325	116.861	1.00110.15	L
ATOM	19936	C	ALA	L	18	82.852	109.149	116.246	1.00110.17	L
ATOM	19937	O	ALA	L	18	82.264	110.074	115.690	1.00111.66	L
ATOM	19938	N	ASN	L	19	82.390	108.537	117.331	1.00109.31	L
ATOM	19939	CA	ASN	L	19	81.132	108.908	117.966	1.00109.45	L
ATOM	19940	CB	ASN	L	19	79.961	108.188	117.290	1.00110.27	L
ATOM	19941	CG	ASN	L	19	79.713	108.671	115.878	1.00112.82	L
ATOM	19942	OD1	ASN	L	19	78.906	109.573	115.652	1.00115.55	L
ATOM	19943	ND2	ASN	L	19	80.414	108.077	114.917	1.00111.78	L
ATOM	19944	C	ASN	L	19	81.166	108.509	119.433	1.00109.15	L
ATOM	19945	O	ASN	L	19	81.337	107.335	119.753	1.00111.50	L
ATOM	19946	N	VAL	L	20	81.010	109.478	120.325	1.00107.49	L
ATOM	19947	CA	VAL	L	20	81.004	109.177	121.751	1.00107.92	L
ATOM	19948	CB	VAL	L	20	81.863	110.190	122.543	1.00106.86	L
ATOM	19949	CG1	VAL	L	20	82.175	109.641	123.926	1.00103.99	L
ATOM	19950	CG2	VAL	L	20	83.145	110.482	121.787	1.00107.58	L
ATOM	19951	C	VAL	L	20	79.544	109.248	122.215	1.00109.05	L
ATOM	19952	O	VAL	L	20	78.832	110.200	121.887	1.00109.69	L
ATOM	19953	N	TYR	L	21	79.095	108.242	122.966	1.00107.23	L
ATOM	19954	CA	TYR	L	21	77.710	108.206	123.431	1.00103.77	L
ATOM	19955	CB	TYR	L	21	77.112	106.819	123.176	1.00 93.96	L
ATOM	19956	CG	TYR	L	21	77.198	106.422	121.726	1.00 83.33	L
ATOM	19957	CD1	TYR	L	21	78.396	105.973	121.178	1.00 81.35	L
ATOM	19958	CE1	TYR	L	21	78.513	105.705	119.819	1.00 76.80	L
ATOM	19959	CD2	TYR	L	21	76.111	106.583	120.877	1.00 81.95	L
ATOM	19960	CE2	TYR	L	21	76.217	106.318	119.513	1.00 76.56	L
ATOM	19961	CZ	TYR	L	21	77.421	105.886	118.991	1.00 75.41	L

ATOM	19962	OH	TYR	L	21	77.545	105.683	117.636	1.00	71.73	L
ATOM	19963	C	TYR	L	21	77.559	108.583	124.897	1.00	106.37	L
ATOM	19964	O	TYR	L	21	76.618	108.154	125.563	1.00	108.47	L
ATOM	19965	N	VAL	L	22	78.484	109.408	125.376	1.00	108.30	L
ATOM	19966	CA	VAL	L	22	78.508	109.877	126.760	1.00	111.82	L
ATOM	19967	CB	VAL	L	22	79.184	111.262	126.857	1.00	113.47	L
ATOM	19968	CG1	VAL	L	22	80.619	111.171	126.384	1.00	113.20	L
ATOM	19969	CG2	VAL	L	22	78.408	112.280	126.026	1.00	113.65	L
ATOM	19970	C	VAL	L	22	77.157	109.979	127.474	1.00	113.31	L
ATOM	19971	O	VAL	L	22	76.135	110.327	126.873	1.00	114.35	L
ATOM	19972	N	ASN	L	23	77.170	109.668	128.767	1.00	113.74	L
ATOM	19973	CA	ASN	L	23	75.975	109.749	129.593	1.00	114.21	L
ATOM	19974	CB	ASN	L	23	75.905	108.577	130.579	1.00	114.03	L
ATOM	19975	CG	ASN	L	23	75.780	107.232	129.884	1.00	114.92	L
ATOM	19976	OD1	ASN	L	23	74.955	107.059	128.984	1.00	115.50	L
ATOM	19977	ND2	ASN	L	23	76.592	106.267	130.307	1.00	113.35	L
ATOM	19978	C	ASN	L	23	76.085	111.064	130.351	1.00	115.02	L
ATOM	19979	O	ASN	L	23	77.172	111.448	130.790	1.00	115.27	L
ATOM	19980	N	LEU	L	24	74.958	111.751	130.497	1.00	115.14	L
ATOM	19981	CA	LEU	L	24	74.928	113.039	131.178	1.00	114.14	L
ATOM	19982	CB	LEU	L	24	74.507	114.119	130.179	1.00	113.27	L
ATOM	19983	CG	LEU	L	24	75.024	113.891	128.756	1.00	111.91	L
ATOM	19984	CD1	LEU	L	24	74.341	114.851	127.806	1.00	110.47	L
ATOM	19985	CD2	LEU	L	24	76.538	114.051	128.721	1.00	112.10	L
ATOM	19986	C	LEU	L	24	73.940	113.004	132.341	1.00	113.65	L
ATOM	19987	O	LEU	L	24	72.906	112.344	132.247	1.00	113.19	L
ATOM	19988	N	ALA	L	25	74.261	113.706	133.429	1.00	113.19	L
ATOM	19989	CA	ALA	L	25	73.383	113.760	134.595	1.00	113.73	L
ATOM	19990	CB	ALA	L	25	73.799	114.901	135.511	1.00	110.98	L
ATOM	19991	C	ALA	L	25	71.967	113.983	134.077	1.00	115.85	L
ATOM	19992	O	ALA	L	25	71.578	115.110	133.791	1.00	116.82	L
ATOM	19993	N	PRO	L	26	71.178	112.900	133.954	1.00	117.93	L
ATOM	19994	CD	PRO	L	26	71.521	111.565	134.480	1.00	119.02	L
ATOM	19995	CA	PRO	L	26	69.795	112.908	133.464	1.00	118.43	L
ATOM	19996	CB	PRO	L	26	69.247	111.579	133.972	1.00	119.37	L
ATOM	19997	CG	PRO	L	26	70.439	110.694	133.877	1.00	119.35	L
ATOM	19998	C	PRO	L	26	68.921	114.087	133.875	1.00	118.08	L
ATOM	19999	O	PRO	L	26	67.960	114.411	133.178	1.00	118.39	L
ATOM	20000	N	VAL	L	27	69.240	114.726	134.997	1.00	117.04	L
ATOM	20001	CA	VAL	L	27	68.444	115.860	135.447	1.00	116.72	L
ATOM	20002	CB	VAL	L	27	67.453	115.437	136.545	1.00	115.85	L
ATOM	20003	CG1	VAL	L	27	66.699	116.649	137.065	1.00	115.20	L
ATOM	20004	CG2	VAL	L	27	66.478	114.416	135.987	1.00	116.99	L
ATOM	20005	C	VAL	L	27	69.263	117.040	135.955	1.00	118.18	L
ATOM	20006	O	VAL	L	27	69.821	117.007	137.052	1.00	117.60	L
ATOM	20007	N	VAL	L	28	69.316	118.087	135.136	1.00	120.17	L
ATOM	20008	CA	VAL	L	28	70.039	119.313	135.457	1.00	119.97	L
ATOM	20009	CB	VAL	L	28	71.133	119.614	134.417	1.00	120.44	L
ATOM	20010	CG1	VAL	L	28	71.952	120.816	134.867	1.00	121.73	L
ATOM	20011	CG2	VAL	L	28	72.014	118.396	134.214	1.00	121.83	L
ATOM	20012	C	VAL	L	28	69.053	120.473	135.433	1.00	119.84	L
ATOM	20013	O	VAL	L	28	68.295	120.625	134.477	1.00	120.06	L
ATOM	20014	N	ASN	L	29	69.065	121.293	136.477	1.00	119.78	L
ATOM	20015	CA	ASN	L	29	68.159	122.434	136.545	1.00	119.85	L
ATOM	20016	CB	ASN	L	29	67.610	122.580	137.963	1.00	119.36	L
ATOM	20017	CG	ASN	L	29	66.703	121.432	138.350	1.00	118.35	L
ATOM	20018	OD1	ASN	L	29	65.704	121.168	137.682	1.00	116.86	L
ATOM	20019	ND2	ASN	L	29	67.046	120.742	139.431	1.00	118.47	L

ATOM	20020	C	ASN	L	29	68.840	123.728	136.110	1.00119.29	L
ATOM	20021	O	ASN	L	29	70.065	123.836	136.150	1.00120.08	L
ATOM	20022	N	VAL	L	30	68.039	124.704	135.688	1.00118.55	L
ATOM	20023	CA	VAL	L	30	68.563	125.992	135.240	1.00117.56	L
ATOM	20024	CB	VAL	L	30	67.420	126.994	134.922	1.00116.48	L
ATOM	20025	CG1	VAL	L	30	68.001	128.308	134.426	1.00114.92	L
ATOM	20026	CG2	VAL	L	30	66.488	126.413	133.874	1.00115.23	L
ATOM	20027	C	VAL	L	30	69.476	126.608	136.297	1.00117.05	L
ATOM	20028	O	VAL	L	30	69.335	126.336	137.492	1.00116.86	L
ATOM	20029	N	GLY	L	31	70.411	127.440	135.849	1.00116.06	L
ATOM	20030	CA	GLY	L	31	71.336	128.070	136.770	1.00114.99	L
ATOM	20031	C	GLY	L	31	72.527	127.164	137.004	1.00114.19	L
ATOM	20032	O	GLY	L	31	73.676	127.572	136.821	1.00114.67	L
ATOM	20033	N	GLN	L	32	72.250	125.924	137.403	1.00112.57	L
ATOM	20034	CA	GLN	L	32	73.298	124.943	137.660	1.00109.53	L
ATOM	20035	CB	GLN	L	32	72.686	123.631	138.159	1.00108.33	L
ATOM	20036	CG	GLN	L	32	72.346	123.674	139.638	1.00107.52	L
ATOM	20037	CD	GLN	L	32	71.618	122.441	140.115	1.00108.81	L
ATOM	20038	OE1	GLN	L	32	72.061	121.318	139.883	1.00109.53	L
ATOM	20039	NE2	GLN	L	32	70.494	122.643	140.796	1.00108.44	L
ATOM	20040	C	GLN	L	32	74.165	124.709	136.427	1.00107.30	L
ATOM	20041	O	GLN	L	32	73.998	125.386	135.411	1.00107.09	L
ATOM	20042	N	ASN	L	33	75.073	123.740	136.507	1.00103.42	L
ATOM	20043	CA	ASN	L	33	75.991	123.499	135.404	1.00 99.40	L
ATOM	20044	CB	ASN	L	33	77.359	124.062	135.803	1.00 96.36	L
ATOM	20045	CG	ASN	L	33	78.291	124.231	134.630	1.00 94.07	L
ATOM	20046	OD1	ASN	L	33	79.404	124.719	134.790	1.00 93.16	L
ATOM	20047	ND2	ASN	L	33	77.845	123.833	133.442	1.00 93.24	L
ATOM	20048	C	ASN	L	33	76.156	122.058	134.909	1.00 96.70	L
ATOM	20049	O	ASN	L	33	76.771	121.234	135.583	1.00 97.20	L
ATOM	20050	N	LEU	L	34	75.614	121.759	133.729	1.00 92.83	L
ATOM	20051	CA	LEU	L	34	75.766	120.428	133.149	1.00 89.01	L
ATOM	20052	CB	LEU	L	34	74.923	120.286	131.878	1.00 84.74	L
ATOM	20053	CG	LEU	L	34	75.161	119.049	131.002	1.00 82.66	L
ATOM	20054	CD1	LEU	L	34	75.179	117.797	131.852	1.00 84.61	L
ATOM	20055	CD2	LEU	L	34	74.070	118.952	129.950	1.00 80.81	L
ATOM	20056	C	LEU	L	34	77.247	120.307	132.811	1.00 89.28	L
ATOM	20057	O	LEU	L	34	77.955	121.311	132.796	1.00 88.96	L
ATOM	20058	N	VAL	L	35	77.722	119.091	132.557	1.00 90.16	L
ATOM	20059	CA	VAL	L	35	79.133	118.870	132.233	1.00 89.52	L
ATOM	20060	CB	VAL	L	35	79.985	118.659	133.513	1.00 87.84	L
ATOM	20061	CG1	VAL	L	35	81.407	118.278	133.132	1.00 88.98	L
ATOM	20062	CG2	VAL	L	35	79.992	119.921	134.358	1.00 84.50	L
ATOM	20063	C	VAL	L	35	79.328	117.654	131.336	1.00 89.81	L
ATOM	20064	O	VAL	L	35	78.741	116.595	131.573	1.00 90.47	L
ATOM	20065	N	VAL	L	36	80.156	117.806	130.306	1.00 89.33	L
ATOM	20066	CA	VAL	L	36	80.427	116.701	129.394	1.00 91.57	L
ATOM	20067	CB	VAL	L	36	79.715	116.891	128.032	1.00 91.44	L
ATOM	20068	CG1	VAL	L	36	79.968	115.677	127.131	1.00 86.99	L
ATOM	20069	CG2	VAL	L	36	78.223	117.081	128.250	1.00 92.82	L
ATOM	20070	C	VAL	L	36	81.923	116.554	129.154	1.00 92.55	L
ATOM	20071	O	VAL	L	36	82.428	116.906	128.087	1.00 93.76	L
ATOM	20072	N	ASP	L	37	82.627	116.038	130.159	1.00 92.64	L
ATOM	20073	CA	ASP	L	37	84.071	115.835	130.066	1.00 92.19	L
ATOM	20074	CB	ASP	L	37	84.679	115.712	131.465	1.00 93.24	L
ATOM	20075	CG	ASP	L	37	86.000	114.982	131.456	1.00 91.26	L
ATOM	20076	OD1	ASP	L	37	86.909	115.400	130.712	1.00 89.57	L
ATOM	20077	OD2	ASP	L	37	86.125	113.986	132.194	1.00 97.56	L

ATOM	20078	C	ASP	L	37	84.413	114.592	129.243	1.00	88.48	L
ATOM	20079	O	ASP	L	37	83.951	113.492	129.543	1.00	87.92	L
ATOM	20080	N	LEU	L	38	85.233	114.773	128.213	1.00	84.80	L
ATOM	20081	CA	LEU	L	38	85.612	113.666	127.349	1.00	84.40	L
ATOM	20082	CB	LEU	L	38	85.502	114.094	125.886	1.00	83.25	L
ATOM	20083	CG	LEU	L	38	84.116	114.583	125.458	1.00	82.11	L
ATOM	20084	CD1	LEU	L	38	84.139	114.848	123.973	1.00	83.62	L
ATOM	20085	CD2	LEU	L	38	83.050	113.550	125.787	1.00	77.00	L
ATOM	20086	C	LEU	L	38	87.003	113.099	127.638	1.00	83.42	L
ATOM	20087	O	LEU	L	38	87.432	112.131	127.005	1.00	81.89	L
ATOM	20088	N	SER	L	39	87.707	113.699	128.594	1.00	81.84	L
ATOM	20089	CA	SER	L	39	89.022	113.202	128.974	1.00	81.69	L
ATOM	20090	CB	SER	L	39	89.787	114.249	129.788	1.00	81.92	L
ATOM	20091	OG	SER	L	39	89.218	114.416	131.074	1.00	79.36	L
ATOM	20092	C	SER	L	39	88.731	111.969	129.829	1.00	82.77	L
ATOM	20093	O	SER	L	39	89.383	111.700	130.838	1.00	83.41	L
ATOM	20094	N	THR	L	40	87.722	111.228	129.400	1.00	83.28	L
ATOM	20095	CA	THR	L	40	87.283	110.033	130.083	1.00	85.92	L
ATOM	20096	CB	THR	L	40	86.505	110.395	131.372	1.00	83.35	L
ATOM	20097	OG1	THR	L	40	87.343	111.187	132.225	1.00	82.31	L
ATOM	20098	CG2	THR	L	40	86.081	109.140	132.121	1.00	81.78	L
ATOM	20099	C	THR	L	40	86.365	109.335	129.094	1.00	89.55	L
ATOM	20100	O	THR	L	40	85.415	108.650	129.475	1.00	90.96	L
ATOM	20101	N	GLN	L	41	86.659	109.531	127.813	1.00	92.10	L
ATOM	20102	CA	GLN	L	41	85.880	108.937	126.729	1.00	95.59	L
ATOM	20103	CB	GLN	L	41	84.623	109.761	126.449	1.00	99.28	L
ATOM	20104	CG	GLN	L	41	83.665	109.938	127.617	1.00	105.53	L
ATOM	20105	CD	GLN	L	41	82.852	108.695	127.908	1.00	106.58	L
ATOM	20106	OE1	GLN	L	41	82.358	108.035	126.992	1.00	110.90	L
ATOM	20107	NE2	GLN	L	41	82.691	108.377	129.188	1.00	109.35	L
ATOM	20108	C	GLN	L	41	86.720	108.924	125.456	1.00	95.95	L
ATOM	20109	O	GLN	L	41	86.353	108.282	124.474	1.00	95.18	L
ATOM	20110	N	ILE	L	42	87.838	109.649	125.480	1.00	96.04	L
ATOM	20111	CA	ILE	L	42	88.728	109.759	124.321	1.00	94.97	L
ATOM	20112	CB	ILE	L	42	88.299	110.930	123.415	1.00	95.20	L
ATOM	20113	CG2	ILE	L	42	89.358	111.188	122.353	1.00	90.44	L
ATOM	20114	CG1	ILE	L	42	86.936	110.630	122.794	1.00	94.21	L
ATOM	20115	CD1	ILE	L	42	86.243	111.848	122.246	1.00	98.08	L
ATOM	20116	C	ILE	L	42	90.187	109.986	124.719	1.00	94.60	L
ATOM	20117	O	ILE	L	42	90.515	110.945	125.425	1.00	91.63	L
ATOM	20118	N	PHE	L	43	91.061	109.109	124.237	1.00	94.34	L
ATOM	20119	CA	PHE	L	43	92.481	109.202	124.547	1.00	91.57	L
ATOM	20120	CB	PHE	L	43	92.865	108.176	125.616	1.00	86.66	L
ATOM	20121	CG	PHE	L	43	91.770	107.883	126.592	1.00	83.49	L
ATOM	20122	CD1	PHE	L	43	90.649	107.169	126.188	1.00	81.39	L
ATOM	20123	CD2	PHE	L	43	91.839	108.351	127.904	1.00	82.98	L
ATOM	20124	CE1	PHE	L	43	89.611	106.922	127.066	1.00	83.68	L
ATOM	20125	CE2	PHE	L	43	90.803	108.110	128.797	1.00	84.14	L
ATOM	20126	CZ	PHE	L	43	89.681	107.392	128.370	1.00	86.24	L
ATOM	20127	C	PHE	L	43	93.308	108.952	123.303	1.00	92.26	L
ATOM	20128	O	PHE	L	43	92.928	108.161	122.439	1.00	91.34	L
ATOM	20129	N	CYS	L	44	94.441	109.635	123.220	1.00	95.12	L
ATOM	20130	CA	CYS	L	44	95.343	109.481	122.093	1.00	98.17	L
ATOM	20131	C	CYS	L	44	96.724	109.176	122.653	1.00	101.13	L
ATOM	20132	O	CYS	L	44	96.953	109.276	123.856	1.00	100.75	L
ATOM	20133	CB	CYS	L	44	95.407	110.766	121.268	1.00	96.60	L
ATOM	20134	SG	CYS	L	44	93.805	111.489	120.787	1.00	95.49	L
ATOM	20135	N	HIS	L	45	97.646	108.816	121.772	1.00	104.78	L

ATOM	20136	CA	HIS	L	45	99.007	108.493	122.177	1.00106.88	L
ATOM	20137	CB	HIS	L	45	99.101	107.014	122.561	1.00107.03	L
ATOM	20138	CG	HIS	L	45	98.867	106.084	121.410	1.00108.74	L
ATOM	20139	CD2	HIS	L	45	99.680	105.182	120.812	1.00110.01	L
ATOM	20140	ND1	HIS	L	45	97.685	106.064	120.699	1.00109.72	L
ATOM	20141	CE1	HIS	L	45	97.782	105.192	119.711	1.00108.24	L
ATOM	20142	NE2	HIS	L	45	98.982	104.643	119.757	1.00111.01	L
ATOM	20143	C	HIS	L	45	99.934	108.767	120.999	1.00108.77	L
ATOM	20144	O	HIS	L	45	99.503	108.769	119.841	1.00108.58	L
ATOM	20145	N	ASN	L	46	101.208	108.995	121.298	1.00110.57	L
ATOM	20146	CA	ASN	L	46	102.205	109.243	120.266	1.00110.28	L
ATOM	20147	CB	ASN	L	46	103.383	110.019	120.853	1.00107.69	L
ATOM	20148	CG	ASN	L	46	104.254	110.633	119.789	1.00107.38	L
ATOM	20149	OD1	ASN	L	46	104.409	110.074	118.708	1.00106.71	L
ATOM	20150	ND2	ASN	L	46	104.842	111.785	120.091	1.00107.19	L
ATOM	20151	C	ASN	L	46	102.681	107.875	119.773	1.00111.19	L
ATOM	20152	O	ASN	L	46	102.902	106.967	120.577	1.00111.80	L
ATOM	20153	N	ASP	L	47	102.822	107.717	118.461	1.00111.27	L
ATOM	20154	CA	ASP	L	47	103.279	106.444	117.906	1.00111.88	L
ATOM	20155	CB	ASP	L	47	102.633	106.183	116.547	1.00111.80	L
ATOM	20156	CG	ASP	L	47	101.182	105.790	116.664	1.00113.88	L
ATOM	20157	OD1	ASP	L	47	100.857	105.013	117.588	1.00115.25	L
ATOM	20158	OD2	ASP	L	47	100.370	106.243	115.829	1.00114.60	L
ATOM	20159	C	ASP	L	47	104.796	106.382	117.762	1.00112.30	L
ATOM	20160	O	ASP	L	47	105.407	105.339	117.995	1.00113.03	L
ATOM	20161	N	TYR	L	48	105.394	107.506	117.374	1.00112.08	L
ATOM	20162	CA	TYR	L	48	106.841	107.616	117.193	1.00111.47	L
ATOM	20163	CB	TYR	L	48	107.146	107.989	115.739	1.00110.86	L
ATOM	20164	CG	TYR	L	48	106.482	107.092	114.708	1.00112.72	L
ATOM	20165	CD1	TYR	L	48	106.171	107.575	113.436	1.00113.99	L
ATOM	20166	CE1	TYR	L	48	105.566	106.757	112.480	1.00113.19	L
ATOM	20167	CD2	TYR	L	48	106.171	105.761	114.996	1.00111.98	L
ATOM	20168	CE2	TYR	L	48	105.569	104.936	114.042	1.00111.03	L
ATOM	20169	CZ	TYR	L	48	105.270	105.443	112.790	1.00111.62	L
ATOM	20170	OH	TYR	L	48	104.675	104.646	111.846	1.00111.04	L
ATOM	20171	C	TYR	L	48	107.336	108.720	118.134	1.00111.06	L
ATOM	20172	O	TYR	L	48	107.832	109.756	117.686	1.00110.61	L
ATOM	20173	N	PRO	L	49	107.216	108.500	119.457	1.00110.86	L
ATOM	20174	CD	PRO	L	49	106.708	107.257	120.068	1.00110.06	L
ATOM	20175	CA	PRO	L	49	107.622	109.450	120.499	1.00110.62	L
ATOM	20176	CB	PRO	L	49	107.036	108.831	121.765	1.00110.31	L
ATOM	20177	CG	PRO	L	49	107.179	107.379	121.503	1.00110.49	L
ATOM	20178	C	PRO	L	49	109.101	109.781	120.661	1.00110.29	L
ATOM	20179	O	PRO	L	49	109.435	110.848	121.172	1.00109.78	L
ATOM	20180	N	GLU	L	50	109.985	108.882	120.243	1.00111.02	L
ATOM	20181	CA	GLU	L	50	111.419	109.126	120.385	1.00110.70	L
ATOM	20182	CB	GLU	L	50	112.201	107.818	120.233	1.00110.37	L
ATOM	20183	CG	GLU	L	50	112.366	107.028	121.527	1.00109.99	L
ATOM	20184	CD	GLU	L	50	111.051	106.535	122.101	1.00112.20	L
ATOM	20185	OE1	GLU	L	50	110.304	105.849	121.371	1.00113.32	L
ATOM	20186	OE2	GLU	L	50	110.768	106.825	123.285	1.00113.10	L
ATOM	20187	C	GLU	L	50	111.979	110.172	119.423	1.00109.74	L
ATOM	20188	O	GLU	L	50	113.124	110.597	119.564	1.00109.26	L
ATOM	20189	N	THR	L	51	111.176	110.593	118.452	1.00109.32	L
ATOM	20190	CA	THR	L	51	111.630	111.591	117.492	1.00109.84	L
ATOM	20191	CB	THR	L	51	111.861	110.976	116.104	1.00112.44	L
ATOM	20192	OG1	THR	L	51	112.632	109.776	116.236	1.00115.48	L
ATOM	20193	CG2	THR	L	51	112.605	111.961	115.206	1.00110.74	L

ATOM	20194	C	THR	L	51	110.603	112.694	117.331	1.00107.59	L
ATOM	20195	O	THR	L	51	110.901	113.875	117.506	1.00105.42	L
ATOM	20196	N	ILE	L	52	109.387	112.288	116.998	1.00106.94	L
ATOM	20197	CA	ILE	L	52	108.296	113.221	116.775	1.00107.93	L
ATOM	20198	CB	ILE	L	52	107.188	112.564	115.937	1.00108.37	L
ATOM	20199	CG2	ILE	L	52	106.313	113.636	115.307	1.00107.90	L
ATOM	20200	CG1	ILE	L	52	107.813	111.684	114.852	1.00110.10	L
ATOM	20201	CD1	ILE	L	52	106.808	110.868	114.071	1.00110.83	L
ATOM	20202	C	ILE	L	52	107.655	113.755	118.050	1.00107.24	L
ATOM	20203	O	ILE	L	52	107.662	113.100	119.092	1.00107.94	L
ATOM	20204	N	THR	L	53	107.102	114.957	117.944	1.00106.76	L
ATOM	20205	CA	THR	L	53	106.410	115.612	119.047	1.00105.47	L
ATOM	20206	CB	THR	L	53	107.170	116.875	119.531	1.00108.03	L
ATOM	20207	OG1	THR	L	53	108.489	116.515	119.966	1.00110.96	L
ATOM	20208	CG2	THR	L	53	106.435	117.527	120.690	1.00110.29	L
ATOM	20209	C	THR	L	53	105.044	116.023	118.488	1.00102.52	L
ATOM	20210	O	THR	L	53	104.954	116.935	117.660	1.00101.48	L
ATOM	20211	N	ASP	L	54	103.989	115.335	118.924	1.00 99.33	L
ATOM	20212	CA	ASP	L	54	102.636	115.625	118.448	1.00 95.94	L
ATOM	20213	CB	ASP	L	54	101.749	114.377	118.542	1.00 99.71	L
ATOM	20214	CG	ASP	L	54	102.046	113.360	117.449	1.00100.98	L
ATOM	20215	OD1	ASP	L	54	101.929	113.705	116.249	1.00100.59	L
ATOM	20216	OD2	ASP	L	54	102.390	112.210	117.795	1.00102.19	L
ATOM	20217	C	ASP	L	54	101.951	116.789	119.153	1.00 91.20	L
ATOM	20218	O	ASP	L	54	102.010	116.926	120.377	1.00 88.79	L
ATOM	20219	N	TYR	L	55	101.290	117.611	118.344	1.00 88.05	L
ATOM	20220	CA	TYR	L	55	100.579	118.798	118.798	1.00 83.66	L
ATOM	20221	CB	TYR	L	55	101.109	120.012	118.043	1.00 81.43	L
ATOM	20222	CG	TYR	L	55	102.588	120.237	118.238	1.00 81.12	L
ATOM	20223	CD1	TYR	L	55	103.345	120.911	117.276	1.00 82.02	L
ATOM	20224	CE1	TYR	L	55	104.698	121.163	117.472	1.00 81.17	L
ATOM	20225	CD2	TYR	L	55	103.226	119.816	119.401	1.00 78.06	L
ATOM	20226	CE2	TYR	L	55	104.574	120.061	119.608	1.00 81.06	L
ATOM	20227	CZ	TYR	L	55	105.306	120.736	118.643	1.00 82.46	L
ATOM	20228	OH	TYR	L	55	106.642	120.994	118.857	1.00 85.23	L
ATOM	20229	C	TYR	L	55	99.084	118.658	118.558	1.00 80.92	L
ATOM	20230	O	TYR	L	55	98.616	118.754	117.423	1.00 80.06	L
ATOM	20231	N	VAL	L	56	98.339	118.428	119.633	1.00 79.17	L
ATOM	20232	CA	VAL	L	56	96.900	118.279	119.536	1.00 79.08	L
ATOM	20233	CB	VAL	L	56	96.394	117.139	120.437	1.00 78.79	L
ATOM	20234	CG1	VAL	L	56	94.870	117.040	120.369	1.00 74.58	L
ATOM	20235	CG2	VAL	L	56	97.020	115.844	119.998	1.00 75.84	L
ATOM	20236	C	VAL	L	56	96.202	119.572	119.917	1.00 80.04	L
ATOM	20237	O	VAL	L	56	96.569	120.239	120.884	1.00 78.01	L
ATOM	20238	N	THR	L	57	95.184	119.909	119.141	1.00 82.07	L
ATOM	20239	CA	THR	L	57	94.419	121.119	119.357	1.00 84.66	L
ATOM	20240	CB	THR	L	57	94.964	122.251	118.474	1.00 84.53	L
ATOM	20241	OG1	THR	L	57	93.993	123.299	118.376	1.00 86.53	L
ATOM	20242	CG2	THR	L	57	95.277	121.726	117.088	1.00 87.09	L
ATOM	20243	C	THR	L	57	92.956	120.893	119.008	1.00 86.38	L
ATOM	20244	O	THR	L	57	92.628	120.004	118.219	1.00 89.14	L
ATOM	20245	N	LEU	L	58	92.083	121.699	119.606	1.00 86.67	L
ATOM	20246	CA	LEU	L	58	90.645	121.635	119.346	1.00 84.73	L
ATOM	20247	CB	LEU	L	58	89.849	121.874	120.641	1.00 85.17	L
ATOM	20248	CG	LEU	L	58	88.315	121.982	120.541	1.00 85.48	L
ATOM	20249	CD1	LEU	L	58	87.716	120.690	120.005	1.00 80.21	L
ATOM	20250	CD2	LEU	L	58	87.740	122.303	121.910	1.00 80.98	L
ATOM	20251	C	LEU	L	58	90.319	122.720	118.318	1.00 81.74	L

ATOM	20252	O	LEU	L	58	90.210	123.900	118.660	1.00	81.13	L
ATOM	20253	N	GLN	L	59	90.188	122.309	117.061	1.00	79.17	L
ATOM	20254	CA	GLN	L	59	89.889	123.221	115.965	1.00	78.54	L
ATOM	20255	CB	GLN	L	59	89.972	122.473	114.637	1.00	80.36	L
ATOM	20256	CG	GLN	L	59	91.325	122.492	113.973	1.00	87.58	L
ATOM	20257	CD	GLN	L	59	91.416	123.519	112.856	1.00	91.04	L
ATOM	20258	OE1	GLN	L	59	91.430	124.726	113.102	1.00	94.22	L
ATOM	20259	NE2	GLN	L	59	91.473	123.038	111.617	1.00	91.65	L
ATOM	20260	C	GLN	L	59	88.516	123.864	116.069	1.00	77.08	L
ATOM	20261	O	GLN	L	59	88.384	125.067	116.272	1.00	73.94	L
ATOM	20262	N	ARG	L	60	87.494	123.038	115.911	1.00	78.88	L
ATOM	20263	CA	ARG	L	60	86.115	123.491	115.945	1.00	79.78	L
ATOM	20264	CB	ARG	L	60	85.442	123.165	114.604	1.00	83.90	L
ATOM	20265	CG	ARG	L	60	83.981	123.565	114.485	1.00	90.82	L
ATOM	20266	CD	ARG	L	60	83.818	125.073	114.448	1.00	98.16	L
ATOM	20267	NE	ARG	L	60	84.669	125.679	113.426	1.00	105.85	L
ATOM	20268	CZ	ARG	L	60	84.621	126.960	113.066	1.00	109.47	L
ATOM	20269	NH1	ARG	L	60	83.755	127.785	113.644	1.00	110.94	L
ATOM	20270	NH2	ARG	L	60	85.449	127.421	112.134	1.00	110.29	L
ATOM	20271	C	ARG	L	60	85.331	122.850	117.088	1.00	77.28	L
ATOM	20272	O	ARG	L	60	85.783	121.896	117.728	1.00	74.62	L
ATOM	20273	N	GLY	L	61	84.154	123.405	117.333	1.00	75.42	L
ATOM	20274	CA	GLY	L	61	83.279	122.910	118.370	1.00	76.59	L
ATOM	20275	C	GLY	L	61	81.891	123.354	117.969	1.00	77.00	L
ATOM	20276	O	GLY	L	61	81.574	124.538	118.054	1.00	79.00	L
ATOM	20277	N	SER	L	62	81.069	122.415	117.516	1.00	76.20	L
ATOM	20278	CA	SER	L	62	79.713	122.732	117.092	1.00	75.35	L
ATOM	20279	CB	SER	L	62	79.445	122.078	115.742	1.00	75.58	L
ATOM	20280	OG	SER	L	62	80.528	122.325	114.862	1.00	72.02	L
ATOM	20281	C	SER	L	62	78.665	122.283	118.116	1.00	74.53	L
ATOM	20282	O	SER	L	62	78.921	121.411	118.936	1.00	72.16	L
ATOM	20283	N	ALA	L	63	77.487	122.894	118.068	1.00	74.93	L
ATOM	20284	CA	ALA	L	63	76.411	122.555	118.993	1.00	74.08	L
ATOM	20285	CB	ALA	L	63	76.129	123.735	119.919	1.00	74.43	L
ATOM	20286	C	ALA	L	63	75.148	122.181	118.218	1.00	74.14	L
ATOM	20287	O	ALA	L	63	74.859	122.763	117.170	1.00	74.62	L
ATOM	20288	N	TYR	L	64	74.408	121.195	118.725	1.00	74.33	L
ATOM	20289	CA	TYR	L	64	73.177	120.749	118.077	1.00	71.93	L
ATOM	20290	CB	TYR	L	64	73.439	119.497	117.242	1.00	72.29	L
ATOM	20291	CG	TYR	L	64	74.607	119.642	116.289	1.00	78.01	L
ATOM	20292	CD1	TYR	L	64	75.919	119.697	116.764	1.00	82.67	L
ATOM	20293	CE1	TYR	L	64	77.001	119.912	115.897	1.00	80.50	L
ATOM	20294	CD2	TYR	L	64	74.402	119.794	114.919	1.00	78.73	L
ATOM	20295	CE2	TYR	L	64	75.475	120.005	114.043	1.00	77.98	L
ATOM	20296	CZ	TYR	L	64	76.769	120.067	114.541	1.00	79.41	L
ATOM	20297	OH	TYR	L	64	77.824	120.308	113.692	1.00	78.93	L
ATOM	20298	C	TYR	L	64	72.111	120.459	119.119	1.00	70.49	L
ATOM	20299	O	TYR	L	64	72.388	120.459	120.321	1.00	68.77	L
ATOM	20300	N	GLY	L	65	70.889	120.227	118.649	1.00	70.51	L
ATOM	20301	CA	GLY	L	65	69.783	119.933	119.543	1.00	71.27	L
ATOM	20302	C	GLY	L	65	69.634	120.838	120.754	1.00	72.60	L
ATOM	20303	O	GLY	L	65	69.885	122.041	120.697	1.00	73.49	L
ATOM	20304	N	GLY	L	66	69.221	120.243	121.863	1.00	74.40	L
ATOM	20305	CA	GLY	L	66	69.018	120.996	123.085	1.00	78.35	L
ATOM	20306	C	GLY	L	66	70.218	121.746	123.627	1.00	81.01	L
ATOM	20307	O	GLY	L	66	70.063	122.628	124.470	1.00	82.82	L
ATOM	20308	N	VAL	L	67	71.418	121.404	123.177	1.00	83.46	L
ATOM	20309	CA	VAL	L	67	72.599	122.111	123.664	1.00	86.20	L

ATOM	20310	CB	VAL	L	67	73.897	121.290	123.436	1.00	89.78	L
ATOM	20311	CG1	VAL	L	67	75.122	122.177	123.665	1.00	91.91	L
ATOM	20312	CG2	VAL	L	67	73.939	120.098	124.397	1.00	89.85	L
ATOM	20313	C	VAL	L	67	72.703	123.442	122.923	1.00	83.78	L
ATOM	20314	O	VAL	L	67	72.982	124.491	123.515	1.00	82.20	L
ATOM	20315	N	LEU	L	68	72.461	123.380	121.620	1.00	79.83	L
ATOM	20316	CA	LEU	L	68	72.509	124.550	120.763	1.00	76.51	L
ATOM	20317	CB	LEU	L	68	72.257	124.118	119.317	1.00	68.85	L
ATOM	20318	CG	LEU	L	68	72.259	125.213	118.256	1.00	66.02	L
ATOM	20319	CD1	LEU	L	68	73.537	126.049	118.352	1.00	64.62	L
ATOM	20320	CD2	LEU	L	68	72.147	124.566	116.901	1.00	59.96	L
ATOM	20321	C	LEU	L	68	71.475	125.608	121.178	1.00	77.45	L
ATOM	20322	O	LEU	L	68	71.749	126.811	121.145	1.00	80.85	L
ATOM	20323	N	SER	L	69	70.299	125.154	121.596	1.00	73.29	L
ATOM	20324	CA	SER	L	69	69.231	126.059	121.968	1.00	68.32	L
ATOM	20325	CB	SER	L	69	67.969	125.641	121.232	1.00	68.97	L
ATOM	20326	OG	SER	L	69	67.681	124.285	121.508	1.00	70.10	L
ATOM	20327	C	SER	L	69	68.904	126.200	123.448	1.00	67.47	L
ATOM	20328	O	SER	L	69	68.415	127.245	123.875	1.00	68.40	L
ATOM	20329	N	ASN	L	70	69.162	125.173	124.245	1.00	65.33	L
ATOM	20330	CA	ASN	L	70	68.813	125.258	125.655	1.00	64.88	L
ATOM	20331	CB	ASN	L	70	68.102	123.978	126.076	1.00	66.40	L
ATOM	20332	CG	ASN	L	70	66.736	123.839	125.433	1.00	72.12	L
ATOM	20333	OD1	ASN	L	70	65.766	124.479	125.864	1.00	74.89	L
ATOM	20334	ND2	ASN	L	70	66.652	123.016	124.383	1.00	67.62	L
ATOM	20335	C	ASN	L	70	69.909	125.585	126.652	1.00	66.32	L
ATOM	20336	O	ASN	L	70	69.636	125.704	127.853	1.00	68.12	L
ATOM	20337	N	PHE	L	71	71.142	125.742	126.178	1.00	66.30	L
ATOM	20338	CA	PHE	L	71	72.232	126.067	127.092	1.00	64.96	L
ATOM	20339	CB	PHE	L	71	73.087	124.840	127.407	1.00	65.68	L
ATOM	20340	CG	PHE	L	71	72.312	123.681	127.944	1.00	66.61	L
ATOM	20341	CD1	PHE	L	71	71.589	122.848	127.082	1.00	61.48	L
ATOM	20342	CD2	PHE	L	71	72.300	123.417	129.311	1.00	63.62	L
ATOM	20343	CE1	PHE	L	71	70.868	121.773	127.577	1.00	62.62	L
ATOM	20344	CE2	PHE	L	71	71.580	122.342	129.817	1.00	63.13	L
ATOM	20345	CZ	PHE	L	71	70.862	121.519	128.951	1.00	63.19	L
ATOM	20346	C	PHE	L	71	73.164	127.139	126.597	1.00	63.33	L
ATOM	20347	O	PHE	L	71	73.231	127.438	125.415	1.00	60.40	L
ATOM	20348	N	SER	L	72	73.886	127.706	127.548	1.00	66.35	L
ATOM	20349	CA	SER	L	72	74.887	128.727	127.299	1.00	67.71	L
ATOM	20350	CB	SER	L	72	74.620	129.958	128.160	1.00	65.35	L
ATOM	20351	OG	SER	L	72	74.587	129.609	129.537	1.00	59.68	L
ATOM	20352	C	SER	L	72	76.119	128.008	127.808	1.00	70.55	L
ATOM	20353	O	SER	L	72	76.004	127.116	128.647	1.00	69.97	L
ATOM	20354	N	GLY	L	73	77.295	128.361	127.315	1.00	74.76	L
ATOM	20355	CA	GLY	L	73	78.460	127.665	127.815	1.00	78.64	L
ATOM	20356	C	GLY	L	73	79.758	127.787	127.056	1.00	78.90	L
ATOM	20357	O	GLY	L	73	79.868	128.499	126.053	1.00	78.90	L
ATOM	20358	N	THR	L	74	80.741	127.051	127.561	1.00	78.55	L
ATOM	20359	CA	THR	L	74	82.080	127.038	127.008	1.00	77.60	L
ATOM	20360	CB	THR	L	74	82.973	127.993	127.782	1.00	74.97	L
ATOM	20361	OG1	THR	L	74	82.908	127.658	129.172	1.00	70.67	L
ATOM	20362	CG2	THR	L	74	82.525	129.425	127.576	1.00	73.92	L
ATOM	20363	C	THR	L	74	82.712	125.655	127.090	1.00	76.47	L
ATOM	20364	O	THR	L	74	82.181	124.744	127.729	1.00	73.18	L
ATOM	20365	N	VAL	L	75	83.861	125.525	126.435	1.00	77.67	L
ATOM	20366	CA	VAL	L	75	84.619	124.287	126.421	1.00	76.66	L
ATOM	20367	CB	VAL	L	75	84.882	123.800	124.977	1.00	74.93	L

ATOM	20368	CG1	VAL	L	75	85.645	124.860	124.195	1.00	75.68	L
ATOM	20369	CG2	VAL	L	75	85.649	122.501	125.003	1.00	72.70	L
ATOM	20370	C	VAL	L	75	85.950	124.543	127.115	1.00	78.13	L
ATOM	20371	O	VAL	L	75	86.715	125.424	126.718	1.00	77.72	L
ATOM	20372	N	LYS	L	76	86.197	123.791	128.181	1.00	79.69	L
ATOM	20373	CA	LYS	L	76	87.442	123.890	128.936	1.00	79.45	L
ATOM	20374	CB	LYS	L	76	87.219	123.355	130.355	1.00	80.12	L
ATOM	20375	CG	LYS	L	76	88.457	122.849	131.078	1.00	82.85	L
ATOM	20376	CD	LYS	L	76	88.036	121.977	132.276	1.00	86.63	L
ATOM	20377	CE	LYS	L	76	89.208	121.226	132.921	1.00	86.79	L
ATOM	20378	NZ	LYS	L	76	88.774	120.451	134.126	1.00	86.13	L
ATOM	20379	C	LYS	L	76	88.451	123.023	128.181	1.00	78.43	L
ATOM	20380	O	LYS	L	76	88.178	121.852	127.896	1.00	78.82	L
ATOM	20381	N	TYR	L	77	89.598	123.596	127.831	1.00	75.92	L
ATOM	20382	CA	TYR	L	77	90.612	122.836	127.112	1.00	75.60	L
ATOM	20383	CB	TYR	L	77	90.612	123.196	125.635	1.00	73.70	L
ATOM	20384	CG	TYR	L	77	91.568	122.355	124.820	1.00	75.02	L
ATOM	20385	CD1	TYR	L	77	91.225	121.064	124.419	1.00	75.30	L
ATOM	20386	CE1	TYR	L	77	92.098	120.288	123.660	1.00	76.63	L
ATOM	20387	CD2	TYR	L	77	92.815	122.851	124.446	1.00	74.47	L
ATOM	20388	CE2	TYR	L	77	93.698	122.083	123.687	1.00	76.92	L
ATOM	20389	CZ	TYR	L	77	93.333	120.802	123.293	1.00	77.55	L
ATOM	20390	OH	TYR	L	77	94.188	120.047	122.515	1.00	77.63	L
ATOM	20391	C	TYR	L	77	92.011	123.053	127.659	1.00	76.66	L
ATOM	20392	O	TYR	L	77	92.609	124.114	127.460	1.00	76.74	L
ATOM	20393	N	SER	L	78	92.535	122.038	128.337	1.00	77.30	L
ATOM	20394	CA	SER	L	78	93.871	122.120	128.910	1.00	81.60	L
ATOM	20395	CB	SER	L	78	94.930	122.132	127.795	1.00	84.29	L
ATOM	20396	OG	SER	L	78	96.251	122.016	128.315	1.00	82.61	L
ATOM	20397	C	SER	L	78	93.994	123.383	129.755	1.00	82.63	L
ATOM	20398	O	SER	L	78	94.829	124.248	129.489	1.00	85.05	L
ATOM	20399	N	GLY	L	79	93.155	123.487	130.776	1.00	83.55	L
ATOM	20400	CA	GLY	L	79	93.205	124.652	131.635	1.00	84.28	L
ATOM	20401	C	GLY	L	79	92.236	125.725	131.194	1.00	82.37	L
ATOM	20402	O	GLY	L	79	91.073	125.706	131.592	1.00	82.85	L
ATOM	20403	N	SER	L	80	92.713	126.656	130.369	1.00	80.60	L
ATOM	20404	CA	SER	L	80	91.870	127.750	129.884	1.00	79.73	L
ATOM	20405	CB	SER	L	80	92.610	128.590	128.824	1.00	80.13	L
ATOM	20406	OG	SER	L	80	93.617	129.408	129.404	1.00	72.90	L
ATOM	20407	C	SER	L	80	90.540	127.258	129.310	1.00	77.44	L
ATOM	20408	O	SER	L	80	90.418	126.105	128.880	1.00	77.93	L
ATOM	20409	N	SER	L	81	89.546	128.146	129.328	1.00	73.15	L
ATOM	20410	CA	SER	L	81	88.213	127.850	128.816	1.00	68.62	L
ATOM	20411	CB	SER	L	81	87.156	128.125	129.883	1.00	72.90	L
ATOM	20412	OG	SER	L	81	87.420	127.382	131.060	1.00	77.57	L
ATOM	20413	C	SER	L	81	87.975	128.757	127.627	1.00	64.40	L
ATOM	20414	O	SER	L	81	88.567	129.832	127.535	1.00	63.30	L
ATOM	20415	N	TYR	L	82	87.114	128.323	126.716	1.00	60.88	L
ATOM	20416	CA	TYR	L	82	86.823	129.108	125.529	1.00	59.63	L
ATOM	20417	CB	TYR	L	82	87.679	128.596	124.359	1.00	60.52	L
ATOM	20418	CG	TYR	L	82	89.153	128.432	124.694	1.00	61.11	L
ATOM	20419	CD1	TYR	L	82	89.613	127.310	125.394	1.00	63.69	L
ATOM	20420	CE1	TYR	L	82	90.962	127.183	125.768	1.00	59.76	L
ATOM	20421	CD2	TYR	L	82	90.080	129.421	124.366	1.00	61.96	L
ATOM	20422	CE2	TYR	L	82	91.430	129.303	124.733	1.00	62.27	L
ATOM	20423	CZ	TYR	L	82	91.859	128.186	125.437	1.00	61.84	L
ATOM	20424	OH	TYR	L	82	93.179	128.091	125.827	1.00	66.60	L
ATOM	20425	C	TYR	L	82	85.327	129.065	125.172	1.00	58.86	L

ATOM	20426	O	TYR	L	82	84.609	128.132	125.531	1.00	57.93	L
ATOM	20427	N	PRO	L	83	84.836	130.083	124.455	1.00	57.04	L
ATOM	20428	CD	PRO	L	83	85.503	131.279	123.913	1.00	53.87	L
ATOM	20429	CA	PRO	L	83	83.418	130.069	124.099	1.00	56.83	L
ATOM	20430	CB	PRO	L	83	83.271	131.311	123.223	1.00	49.93	L
ATOM	20431	CG	PRO	L	83	84.344	132.211	123.706	1.00	52.26	L
ATOM	20432	C	PRO	L	83	83.016	128.802	123.339	1.00	59.26	L
ATOM	20433	O	PRO	L	83	83.736	128.353	122.443	1.00	62.04	L
ATOM	20434	N	PHE	L	84	81.881	128.216	123.709	1.00	58.57	L
ATOM	20435	CA	PHE	L	84	81.376	127.053	122.998	1.00	58.35	L
ATOM	20436	CB	PHE	L	84	81.444	125.773	123.816	1.00	59.07	L
ATOM	20437	CG	PHE	L	84	80.891	124.582	123.078	1.00	59.76	L
ATOM	20438	CD1	PHE	L	84	81.495	124.139	121.902	1.00	61.91	L
ATOM	20439	CD2	PHE	L	84	79.733	123.948	123.505	1.00	58.66	L
ATOM	20440	CE1	PHE	L	84	80.946	123.087	121.164	1.00	55.43	L
ATOM	20441	CE2	PHE	L	84	79.180	122.894	122.769	1.00	56.03	L
ATOM	20442	CZ	PHE	L	84	79.789	122.468	121.599	1.00	53.28	L
ATOM	20443	C	PHE	L	84	79.924	127.297	122.642	1.00	61.58	L
ATOM	20444	O	PHE	L	84	79.115	127.626	123.517	1.00	63.69	L
ATOM	20445	N	PRO	L	85	79.563	127.131	121.353	1.00	62.51	L
ATOM	20446	CD	PRO	L	85	78.177	127.276	120.877	1.00	58.01	L
ATOM	20447	CA	PRO	L	85	80.439	126.730	120.245	1.00	62.15	L
ATOM	20448	CB	PRO	L	85	79.546	126.896	119.028	1.00	59.55	L
ATOM	20449	CG	PRO	L	85	78.213	126.525	119.566	1.00	60.99	L
ATOM	20450	C	PRO	L	85	81.708	127.557	120.140	1.00	64.27	L
ATOM	20451	O	PRO	L	85	81.714	128.745	120.443	1.00	65.25	L
ATOM	20452	N	THR	L	86	82.784	126.905	119.718	1.00	66.71	L
ATOM	20453	CA	THR	L	86	84.087	127.540	119.559	1.00	65.47	L
ATOM	20454	CB	THR	L	86	85.147	126.505	119.185	1.00	65.18	L
ATOM	20455	OG1	THR	L	86	84.894	126.030	117.854	1.00	61.44	L
ATOM	20456	CG2	THR	L	86	85.097	125.335	120.159	1.00	67.46	L
ATOM	20457	C	THR	L	86	84.049	128.591	118.454	1.00	65.96	L
ATOM	20458	O	THR	L	86	83.275	128.474	117.497	1.00	65.57	L
ATOM	20459	N	THR	L	87	84.897	129.608	118.593	1.00	63.47	L
ATOM	20460	CA	THR	L	87	84.981	130.695	117.626	1.00	60.53	L
ATOM	20461	CB	THR	L	87	84.782	132.066	118.299	1.00	58.09	L
ATOM	20462	OG1	THR	L	87	85.930	132.375	119.101	1.00	59.58	L
ATOM	20463	CG2	THR	L	87	83.544	132.054	119.178	1.00	52.94	L
ATOM	20464	C	THR	L	87	86.349	130.701	116.962	1.00	60.69	L
ATOM	20465	O	THR	L	87	86.616	131.512	116.082	1.00	60.99	L
ATOM	20466	N	SER	L	88	87.223	129.801	117.393	1.00	62.48	L
ATOM	20467	CA	SER	L	88	88.559	129.724	116.823	1.00	61.69	L
ATOM	20468	CB	SER	L	88	89.320	131.011	117.105	1.00	59.96	L
ATOM	20469	OG	SER	L	88	89.501	131.159	118.495	1.00	66.19	L
ATOM	20470	C	SER	L	88	89.331	128.545	117.392	1.00	61.69	L
ATOM	20471	O	SER	L	88	88.971	127.998	118.436	1.00	54.72	L
ATOM	20472	N	GLU	L	89	90.394	128.161	116.689	1.00	66.75	L
ATOM	20473	CA	GLU	L	89	91.233	127.041	117.098	1.00	70.85	L
ATOM	20474	CB	GLU	L	89	92.271	126.729	116.026	1.00	72.23	L
ATOM	20475	CG	GLU	L	89	93.353	125.784	116.498	1.00	73.17	L
ATOM	20476	CD	GLU	L	89	94.285	125.385	115.383	1.00	77.65	L
ATOM	20477	OE1	GLU	L	89	94.832	126.297	114.717	1.00	79.95	L
ATOM	20478	OE2	GLU	L	89	94.468	124.163	115.175	1.00	75.36	L
ATOM	20479	C	GLU	L	89	91.940	127.307	118.414	1.00	73.76	L
ATOM	20480	O	GLU	L	89	92.487	128.389	118.638	1.00	76.12	L
ATOM	20481	N	THR	L	90	91.946	126.288	119.263	1.00	73.37	L
ATOM	20482	CA	THR	L	90	92.543	126.369	120.584	1.00	75.20	L
ATOM	20483	CB	THR	L	90	91.940	125.257	121.469	1.00	74.12	L

ATOM	20484	OG1	THR	L	90	92.189	125.539	122.846	1.00	77.43	L
ATOM	20485	CG2	THR	L	90	92.556	123.926	121.129	1.00	73.10	L
ATOM	20486	C	THR	L	90	94.074	126.234	120.558	1.00	76.12	L
ATOM	20487	O	THR	L	90	94.654	125.835	119.548	1.00	76.90	L
ATOM	20488	N	PRO	L	91	94.750	126.614	121.657	1.00	76.40	L
ATOM	20489	CD	PRO	L	91	94.256	127.448	122.767	1.00	76.63	L
ATOM	20490	CA	PRO	L	91	96.210	126.498	121.713	1.00	77.24	L
ATOM	20491	CB	PRO	L	91	96.543	127.058	123.089	1.00	77.37	L
ATOM	20492	CG	PRO	L	91	95.521	128.125	123.255	1.00	78.70	L
ATOM	20493	C	PRO	L	91	96.537	125.017	121.607	1.00	78.08	L
ATOM	20494	O	PRO	L	91	95.654	124.187	121.813	1.00	79.75	L
ATOM	20495	N	ARG	L	92	97.787	124.676	121.308	1.00	80.18	L
ATOM	20496	CA	ARG	L	92	98.161	123.270	121.161	1.00	82.56	L
ATOM	20497	CB	ARG	L	92	99.133	123.097	119.985	1.00	85.05	L
ATOM	20498	CG	ARG	L	92	100.467	123.822	120.133	1.00	90.29	L
ATOM	20499	CD	ARG	L	92	101.353	123.569	118.915	1.00	92.48	L
ATOM	20500	NE	ARG	L	92	102.657	124.234	118.993	1.00	95.87	L
ATOM	20501	CZ	ARG	L	92	103.571	124.002	119.932	1.00	96.69	L
ATOM	20502	NH1	ARG	L	92	103.337	123.118	120.895	1.00	96.03	L
ATOM	20503	NH2	ARG	L	92	104.728	124.650	119.904	1.00	96.72	L
ATOM	20504	C	ARG	L	92	98.750	122.614	122.405	1.00	82.84	L
ATOM	20505	O	ARG	L	92	99.473	123.240	123.178	1.00	83.28	L
ATOM	20506	N	VAL	L	93	98.418	121.341	122.583	1.00	83.09	L
ATOM	20507	CA	VAL	L	93	98.902	120.540	123.700	1.00	85.45	L
ATOM	20508	CB	VAL	L	93	97.725	119.894	124.449	1.00	87.64	L
ATOM	20509	CG1	VAL	L	93	98.243	119.004	125.571	1.00	90.30	L
ATOM	20510	CG2	VAL	L	93	96.807	120.980	124.994	1.00	87.21	L
ATOM	20511	C	VAL	L	93	99.807	119.440	123.125	1.00	86.06	L
ATOM	20512	O	VAL	L	93	99.496	118.876	122.072	1.00	85.84	L
ATOM	20513	N	VAL	L	94	100.913	119.130	123.806	1.00	85.82	L
ATOM	20514	CA	VAL	L	94	101.857	118.117	123.315	1.00	83.24	L
ATOM	20515	CB	VAL	L	94	103.320	118.416	123.759	1.00	79.73	L
ATOM	20516	CG1	VAL	L	94	103.708	119.832	123.369	1.00	75.78	L
ATOM	20517	CG2	VAL	L	94	103.476	118.201	125.253	1.00	76.25	L
ATOM	20518	C	VAL	L	94	101.550	116.681	123.707	1.00	83.19	L
ATOM	20519	O	VAL	L	94	101.059	116.409	124.801	1.00	81.51	L
ATOM	20520	N	TYR	L	95	101.850	115.767	122.789	1.00	86.60	L
ATOM	20521	CA	TYR	L	95	101.648	114.339	123.004	1.00	89.65	L
ATOM	20522	CB	TYR	L	95	100.506	113.836	122.124	1.00	88.03	L
ATOM	20523	CG	TYR	L	95	99.173	114.088	122.764	1.00	89.36	L
ATOM	20524	CD1	TYR	L	95	98.734	115.383	123.004	1.00	90.03	L
ATOM	20525	CE1	TYR	L	95	97.550	115.624	123.684	1.00	90.13	L
ATOM	20526	CD2	TYR	L	95	98.384	113.031	123.214	1.00	93.15	L
ATOM	20527	CE2	TYR	L	95	97.197	113.260	123.894	1.00	91.91	L
ATOM	20528	CZ	TYR	L	95	96.792	114.560	124.127	1.00	91.18	L
ATOM	20529	OH	TYR	L	95	95.642	114.795	124.830	1.00	91.14	L
ATOM	20530	C	TYR	L	95	102.934	113.569	122.719	1.00	91.24	L
ATOM	20531	O	TYR	L	95	103.368	113.465	121.573	1.00	92.06	L
ATOM	20532	N	ASN	L	96	103.543	113.035	123.773	1.00	92.64	L
ATOM	20533	CA	ASN	L	96	104.793	112.299	123.635	1.00	93.97	L
ATOM	20534	CB	ASN	L	96	105.964	113.238	123.960	1.00	95.34	L
ATOM	20535	CG	ASN	L	96	105.717	114.075	125.208	1.00	99.29	L
ATOM	20536	OD1	ASN	L	96	106.441	115.036	125.476	1.00	102.12	L
ATOM	20537	ND2	ASN	L	96	104.696	113.709	125.981	1.00	99.32	L
ATOM	20538	C	ASN	L	96	104.870	111.021	124.483	1.00	93.62	L
ATOM	20539	O	ASN	L	96	105.461	111.012	125.568	1.00	92.26	L
ATOM	20540	N	SER	L	97	104.272	109.946	123.967	1.00	93.18	L
ATOM	20541	CA	SER	L	97	104.255	108.641	124.630	1.00	94.06	L

ATOM	20542	CB	SER	L	97	103.903	108.786	126.114	1.00	94.27	L
ATOM	20543	OG	SER	L	97	103.763	107.516	126.728	1.00	93.23	L
ATOM	20544	C	SER	L	97	103.237	107.726	123.967	1.00	94.52	L
ATOM	20545	O	SER	L	97	102.174	108.179	123.551	1.00	94.59	L
ATOM	20546	N	ARG	L	98	103.560	106.438	123.865	1.00	95.53	L
ATOM	20547	CA	ARG	L	98	102.642	105.486	123.251	1.00	95.28	L
ATOM	20548	CB	ARG	L	98	103.378	104.221	122.809	1.00	96.66	L
ATOM	20549	CG	ARG	L	98	104.415	104.485	121.730	1.00	100.78	L
ATOM	20550	CD	ARG	L	98	104.984	103.201	121.140	1.00	101.63	L
ATOM	20551	NE	ARG	L	98	106.123	103.472	120.265	1.00	102.17	L
ATOM	20552	CZ	ARG	L	98	107.281	103.978	120.681	1.00	103.13	L
ATOM	20553	NH1	ARG	L	98	107.464	104.270	121.962	1.00	103.18	L
ATOM	20554	NH2	ARG	L	98	108.260	104.204	119.815	1.00	106.66	L
ATOM	20555	C	ARG	L	98	101.562	105.140	124.249	1.00	94.49	L
ATOM	20556	O	ARG	L	98	100.662	104.350	123.968	1.00	94.00	L
ATOM	20557	N	THR	L	99	101.667	105.744	125.427	1.00	95.06	L
ATOM	20558	CA	THR	L	99	100.685	105.536	126.481	1.00	96.92	L
ATOM	20559	CB	THR	L	99	101.277	105.866	127.866	1.00	95.58	L
ATOM	20560	OG1	THR	L	99	102.365	104.976	128.142	1.00	93.72	L
ATOM	20561	CG2	THR	L	99	100.214	105.732	128.954	1.00	94.64	L
ATOM	20562	C	THR	L	99	99.488	106.452	126.208	1.00	98.50	L
ATOM	20563	O	THR	L	99	99.605	107.683	126.228	1.00	97.72	L
ATOM	20564	N	ASP	L	100	98.340	105.842	125.942	1.00	98.88	L
ATOM	20565	CA	ASP	L	100	97.126	106.593	125.655	1.00	100.68	L
ATOM	20566	CB	ASP	L	100	95.949	105.633	125.522	1.00	101.20	L
ATOM	20567	CG	ASP	L	100	96.081	104.726	124.329	1.00	102.58	L
ATOM	20568	OD1	ASP	L	100	95.858	105.199	123.192	1.00	100.73	L
ATOM	20569	OD2	ASP	L	100	96.419	103.542	124.533	1.00	106.83	L
ATOM	20570	C	ASP	L	100	96.778	107.672	126.677	1.00	100.45	L
ATOM	20571	O	ASP	L	100	96.262	107.378	127.755	1.00	97.97	L
ATOM	20572	N	LYS	L	101	97.075	108.920	126.328	1.00	101.43	L
ATOM	20573	CA	LYS	L	101	96.760	110.063	127.178	1.00	101.84	L
ATOM	20574	CB	LYS	L	101	97.892	111.095	127.149	1.00	100.45	L
ATOM	20575	CG	LYS	L	101	97.604	112.359	127.950	1.00	101.29	L
ATOM	20576	CD	LYS	L	101	98.745	113.370	127.845	1.00	100.15	L
ATOM	20577	CE	LYS	L	101	98.516	114.561	128.771	1.00	102.11	L
ATOM	20578	NZ	LYS	L	101	99.636	115.547	128.728	1.00	101.98	L
ATOM	20579	C	LYS	L	101	95.493	110.682	126.590	1.00	102.86	L
ATOM	20580	O	LYS	L	101	95.339	110.747	125.367	1.00	103.84	L
ATOM	20581	N	PRO	L	102	94.560	111.132	127.447	1.00	102.52	L
ATOM	20582	CD	PRO	L	102	94.532	111.047	128.922	1.00	101.78	L
ATOM	20583	CA	PRO	L	102	93.325	111.737	126.939	1.00	99.44	L
ATOM	20584	CB	PRO	L	102	92.362	111.545	128.098	1.00	99.58	L
ATOM	20585	CG	PRO	L	102	93.260	111.825	129.284	1.00	100.17	L
ATOM	20586	C	PRO	L	102	93.559	113.215	126.654	1.00	96.41	L
ATOM	20587	O	PRO	L	102	94.357	113.858	127.340	1.00	94.91	L
ATOM	20588	N	TRP	L	103	92.893	113.762	125.644	1.00	94.11	L
ATOM	20589	CA	TRP	L	103	93.069	115.184	125.391	1.00	91.08	L
ATOM	20590	CB	TRP	L	103	92.921	115.523	123.895	1.00	89.75	L
ATOM	20591	CG	TRP	L	103	91.557	115.423	123.349	1.00	93.88	L
ATOM	20592	CD2	TRP	L	103	91.000	116.210	122.291	1.00	94.16	L
ATOM	20593	CE2	TRP	L	103	89.679	115.748	122.079	1.00	95.47	L
ATOM	20594	CE3	TRP	L	103	91.484	117.257	121.500	1.00	93.12	L
ATOM	20595	CD1	TRP	L	103	90.586	114.541	123.726	1.00	96.82	L
ATOM	20596	NE1	TRP	L	103	89.454	114.731	122.969	1.00	98.60	L
ATOM	20597	CZ2	TRP	L	103	88.832	116.301	121.107	1.00	92.43	L
ATOM	20598	CZ3	TRP	L	103	90.640	117.807	120.531	1.00	92.99	L
ATOM	20599	CH2	TRP	L	103	89.328	117.324	120.347	1.00	91.23	L

ATOM	20600	C	TRP	L	103	92.034	115.886	126.262	1.00	87.62	L
ATOM	20601	O	TRP	L	103	90.884	115.454	126.354	1.00	82.55	L
ATOM	20602	N	PRO	L	104	92.453	116.954	126.954	1.00	88.26	L
ATOM	20603	CD	PRO	L	104	93.783	117.567	126.774	1.00	88.92	L
ATOM	20604	CA	PRO	L	104	91.627	117.768	127.852	1.00	89.03	L
ATOM	20605	CB	PRO	L	104	92.634	118.750	128.436	1.00	89.62	L
ATOM	20606	CG	PRO	L	104	93.558	118.979	127.272	1.00	90.97	L
ATOM	20607	C	PRO	L	104	90.466	118.486	127.163	1.00	88.46	L
ATOM	20608	O	PRO	L	104	90.599	119.631	126.736	1.00	87.77	L
ATOM	20609	N	VAL	L	105	89.327	117.817	127.060	1.00	87.18	L
ATOM	20610	CA	VAL	L	105	88.181	118.428	126.420	1.00	89.16	L
ATOM	20611	CB	VAL	L	105	87.930	117.830	125.025	1.00	88.47	L
ATOM	20612	CG1	VAL	L	105	86.608	118.336	124.468	1.00	86.01	L
ATOM	20613	CG2	VAL	L	105	89.066	118.221	124.103	1.00	89.19	L
ATOM	20614	C	VAL	L	105	86.940	118.256	127.266	1.00	91.00	L
ATOM	20615	O	VAL	L	105	86.286	117.209	127.231	1.00	93.61	L
ATOM	20616	N	ALA	L	106	86.620	119.294	128.031	1.00	87.98	L
ATOM	20617	CA	ALA	L	106	85.450	119.260	128.884	1.00	84.07	L
ATOM	20618	CB	ALA	L	106	85.865	119.414	130.338	1.00	83.94	L
ATOM	20619	C	ALA	L	106	84.462	120.352	128.484	1.00	82.01	L
ATOM	20620	O	ALA	L	106	84.825	121.529	128.362	1.00	78.41	L
ATOM	20621	N	LEU	L	107	83.216	119.931	128.269	1.00	79.10	L
ATOM	20622	CA	LEU	L	107	82.122	120.815	127.893	1.00	74.67	L
ATOM	20623	CB	LEU	L	107	81.156	120.086	126.973	1.00	68.43	L
ATOM	20624	CG	LEU	L	107	81.142	120.542	125.528	1.00	66.15	L
ATOM	20625	CD1	LEU	L	107	82.547	120.498	124.971	1.00	65.95	L
ATOM	20626	CD2	LEU	L	107	80.206	119.649	124.732	1.00	67.45	L
ATOM	20627	C	LEU	L	107	81.357	121.275	129.121	1.00	75.06	L
ATOM	20628	O	LEU	L	107	80.894	120.454	129.914	1.00	73.85	L
ATOM	20629	N	TYR	L	108	81.225	122.587	129.272	1.00	76.71	L
ATOM	20630	CA	TYR	L	108	80.496	123.149	130.398	1.00	79.85	L
ATOM	20631	CB	TYR	L	108	81.428	124.006	131.253	1.00	79.40	L
ATOM	20632	CG	TYR	L	108	82.486	123.190	131.963	1.00	87.08	L
ATOM	20633	CD1	TYR	L	108	83.508	122.563	131.249	1.00	88.93	L
ATOM	20634	CE1	TYR	L	108	84.475	121.794	131.897	1.00	89.60	L
ATOM	20635	CD2	TYR	L	108	82.458	123.023	133.352	1.00	88.23	L
ATOM	20636	CE2	TYR	L	108	83.423	122.251	134.011	1.00	87.28	L
ATOM	20637	CZ	TYR	L	108	84.429	121.641	133.275	1.00	89.05	L
ATOM	20638	OH	TYR	L	108	85.401	120.892	133.904	1.00	89.94	L
ATOM	20639	C	TYR	L	108	79.299	123.963	129.905	1.00	81.70	L
ATOM	20640	O	TYR	L	108	79.442	125.104	129.464	1.00	83.42	L
ATOM	20641	N	LEU	L	109	78.117	123.358	129.988	1.00	81.73	L
ATOM	20642	CA	LEU	L	109	76.883	123.991	129.535	1.00	83.90	L
ATOM	20643	CB	LEU	L	109	76.190	123.072	128.536	1.00	76.93	L
ATOM	20644	CG	LEU	L	109	77.162	122.436	127.555	1.00	73.45	L
ATOM	20645	CD1	LEU	L	109	76.403	121.471	126.658	1.00	70.95	L
ATOM	20646	CD2	LEU	L	109	77.869	123.520	126.754	1.00	68.90	L
ATOM	20647	C	LEU	L	109	75.913	124.322	130.673	1.00	85.97	L
ATOM	20648	O	LEU	L	109	75.673	123.504	131.556	1.00	87.21	L
ATOM	20649	N	THR	L	110	75.356	125.525	130.643	1.00	88.00	L
ATOM	20650	CA	THR	L	110	74.405	125.945	131.663	1.00	90.69	L
ATOM	20651	CB	THR	L	110	74.811	127.284	132.294	1.00	88.72	L
ATOM	20652	CG1	THR	L	110	76.161	127.193	132.762	1.00	89.59	L
ATOM	20653	CG2	THR	L	110	73.896	127.617	133.467	1.00	87.69	L
ATOM	20654	C	THR	L	110	73.043	126.109	131.009	1.00	93.52	L
ATOM	20655	O	THR	L	110	72.954	126.559	129.865	1.00	95.18	L
ATOM	20656	N	PRO	L	111	71.964	125.728	131.715	1.00	94.33	L
ATOM	20657	CD	PRO	L	111	71.908	124.887	132.922	1.00	93.27	L

ATOM	20658	CA	PRO	L	111	70.629	125.868	131.124	1.00	94.38	L
ATOM	20659	CB	PRO	L	111	69.774	124.900	131.950	1.00	93.24	L
ATOM	20660	CG	PRO	L	111	70.783	123.956	132.579	1.00	92.31	L
ATOM	20661	C	PRO	L	111	70.128	127.311	131.226	1.00	94.83	L
ATOM	20662	O	PRO	L	111	70.327	127.983	132.246	1.00	94.63	L
ATOM	20663	N	VAL	L	112	69.494	127.787	130.158	1.00	94.76	L
ATOM	20664	CA	VAL	L	112	68.954	129.142	130.131	1.00	93.13	L
ATOM	20665	CB	VAL	L	112	68.899	129.696	128.698	1.00	88.61	L
ATOM	20666	CG1	VAL	L	112	70.296	129.932	128.181	1.00	84.01	L
ATOM	20667	CG2	VAL	L	112	68.162	128.718	127.793	1.00	87.95	L
ATOM	20668	C	VAL	L	112	67.540	129.120	130.691	1.00	95.21	L
ATOM	20669	O	VAL	L	112	66.809	128.142	130.509	1.00	97.24	L
ATOM	20670	N	SER	L	113	67.160	130.191	131.379	1.00	95.90	L
ATOM	20671	CA	SER	L	113	65.822	130.303	131.957	1.00	96.67	L
ATOM	20672	CB	SER	L	113	65.532	131.771	132.286	1.00	95.83	L
ATOM	20673	OG	SER	L	113	64.230	131.934	132.810	1.00	100.08	L
ATOM	20674	C	SER	L	113	64.765	129.759	130.985	1.00	95.81	L
ATOM	20675	O	SER	L	113	63.770	129.176	131.402	1.00	93.97	L
ATOM	20676	N	SER	L	114	65.016	129.942	129.691	1.00	97.49	L
ATOM	20677	CA	SER	L	114	64.128	129.504	128.615	1.00	98.52	L
ATOM	20678	CB	SER	L	114	64.733	129.890	127.261	1.00	96.80	L
ATOM	20679	OG	SER	L	114	63.936	129.430	126.186	1.00	93.54	L
ATOM	20680	C	SER	L	114	63.798	128.017	128.601	1.00	101.31	L
ATOM	20681	O	SER	L	114	62.700	127.627	128.208	1.00	100.76	L
ATOM	20682	N	ALA	L	115	64.749	127.183	129.007	1.00	106.23	L
ATOM	20683	CA	ALA	L	115	64.526	125.740	129.029	1.00	111.03	L
ATOM	20684	CB	ALA	L	115	65.762	125.030	129.568	1.00	110.38	L
ATOM	20685	C	ALA	L	115	63.303	125.413	129.894	1.00	114.25	L
ATOM	20686	O	ALA	L	115	62.702	126.314	130.489	1.00	115.26	L
ATOM	20687	N	GLY	L	116	62.932	124.134	129.961	1.00	116.14	L
ATOM	20688	CA	GLY	L	116	61.775	123.745	130.757	1.00	117.11	L
ATOM	20689	C	GLY	L	116	61.762	122.309	131.263	1.00	117.63	L
ATOM	20690	O	GLY	L	116	61.675	122.070	132.469	1.00	116.94	L
ATOM	20691	N	GLY	L	117	61.830	121.353	130.340	1.00	118.06	L
ATOM	20692	CA	GLY	L	117	61.828	119.951	130.718	1.00	116.99	L
ATOM	20693	C	GLY	L	117	62.896	119.172	129.976	1.00	116.51	L
ATOM	20694	O	GLY	L	117	64.069	119.213	130.343	1.00	115.33	L
ATOM	20695	N	VAL	L	118	62.490	118.465	128.925	1.00	116.89	L
ATOM	20696	CA	VAL	L	118	63.421	117.673	128.131	1.00	117.38	L
ATOM	20697	CB	VAL	L	118	62.676	116.703	127.182	1.00	118.05	L
ATOM	20698	CG1	VAL	L	118	63.675	115.927	126.336	1.00	117.86	L
ATOM	20699	CG2	VAL	L	118	61.819	115.744	127.983	1.00	118.93	L
ATOM	20700	C	VAL	L	118	64.314	118.575	127.290	1.00	117.99	L
ATOM	20701	O	VAL	L	118	63.952	118.958	126.176	1.00	119.20	L
ATOM	20702	N	ALA	L	119	65.480	118.919	127.828	1.00	117.68	L
ATOM	20703	CA	ALA	L	119	66.432	119.765	127.117	1.00	116.69	L
ATOM	20704	CB	ALA	L	119	67.460	120.332	128.094	1.00	113.17	L
ATOM	20705	C	ALA	L	119	67.130	118.941	126.035	1.00	117.27	L
ATOM	20706	O	ALA	L	119	67.228	119.365	124.881	1.00	117.47	L
ATOM	20707	N	ILE	L	120	67.603	117.757	126.417	1.00	117.58	L
ATOM	20708	CA	ILE	L	120	68.297	116.859	125.497	1.00	115.96	L
ATOM	20709	CB	ILE	L	120	69.765	116.628	125.942	1.00	115.51	L
ATOM	20710	CG2	ILE	L	120	70.438	115.619	125.025	1.00	115.90	L
ATOM	20711	CG1	ILE	L	120	70.532	117.950	125.927	1.00	112.37	L
ATOM	20712	CD1	ILE	L	120	71.980	117.816	126.333	1.00	112.13	L
ATOM	20713	C	ILE	L	120	67.597	115.505	125.432	1.00	113.76	L
ATOM	20714	O	ILE	L	120	67.132	114.993	126.449	1.00	113.24	L
ATOM	20715	N	LYS	L	121	67.528	114.934	124.234	1.00	111.98	L

ATOM	20716	CA	LYS	L	121	66.898	113.633	124.042	1.00112.00	L
ATOM	20717	CB	LYS	L	121	66.568	113.418	122.560	1.00111.05	L
ATOM	20718	CG	LYS	L	121	65.146	113.842	122.173	1.00110.26	L
ATOM	20719	CD	LYS	L	121	64.818	115.267	122.625	1.00110.11	L
ATOM	20720	CE	LYS	L	121	63.312	115.567	122.569	1.00108.08	L
ATOM	20721	NZ	LYS	L	121	62.733	115.498	121.196	1.00105.43	L
ATOM	20722	C	LYS	L	121	67.796	112.512	124.561	1.00111.83	L
ATOM	20723	O	LYS	L	121	68.830	112.772	125.172	1.00112.38	L
ATOM	20724	N	ALA	L	122	67.401	111.267	124.324	1.00111.38	L
ATOM	20725	CA	ALA	L	122	68.179	110.130	124.800	1.00111.63	L
ATOM	20726	CB	ALA	L	122	67.266	109.145	125.519	1.00112.12	L
ATOM	20727	C	ALA	L	122	68.930	109.421	123.683	1.00111.82	L
ATOM	20728	O	ALA	L	122	69.341	108.272	123.837	1.00111.41	L
ATOM	20729	N	GLY	L	123	69.114	110.107	122.561	1.00111.86	L
ATOM	20730	CA	GLY	L	123	69.820	109.507	121.443	1.00112.93	L
ATOM	20731	C	GLY	L	123	70.029	110.469	120.291	1.00113.36	L
ATOM	20732	O	GLY	L	123	69.917	110.099	119.115	1.00113.10	L
ATOM	20733	N	SER	L	124	70.336	111.715	120.634	1.00113.08	L
ATOM	20734	CA	SER	L	124	70.565	112.756	119.641	1.00110.16	L
ATOM	20735	CB	SER	L	124	69.655	113.960	119.918	1.00111.12	L
ATOM	20736	OG	SER	L	124	69.825	114.446	121.241	1.00111.22	L
ATOM	20737	C	SER	L	124	72.019	113.199	119.658	1.00106.46	L
ATOM	20738	O	SER	L	124	72.827	112.690	120.439	1.00104.46	L
ATOM	20739	N	LEU	L	125	72.341	114.144	118.779	1.00104.17	L
ATOM	20740	CA	LEU	L	125	73.688	114.688	118.685	1.00101.15	L
ATOM	20741	CB	LEU	L	125	74.004	115.072	117.238	1.00 99.82	L
ATOM	20742	CG	LEU	L	125	75.389	115.664	116.966	1.00100.94	L
ATOM	20743	CD1	LEU	L	125	76.490	114.687	117.376	1.00 98.29	L
ATOM	20744	CD2	LEU	L	125	75.489	115.989	115.491	1.00 98.87	L
ATOM	20745	C	LEU	L	125	73.798	115.916	119.583	1.00 98.00	L
ATOM	20746	O	LEU	L	125	72.937	116.793	119.560	1.00 98.22	L
ATOM	20747	N	ILE	L	126	74.850	115.957	120.391	1.00 95.32	L
ATOM	20748	CA	ILE	L	126	75.083	117.082	121.284	1.00 93.82	L
ATOM	20749	CB	ILE	L	126	75.844	116.663	122.561	1.00 91.81	L
ATOM	20750	CG2	ILE	L	126	76.133	117.881	123.411	1.00 92.04	L
ATOM	20751	CG1	ILE	L	126	75.037	115.665	123.375	1.00 91.24	L
ATOM	20752	CD1	ILE	L	126	75.748	115.256	124.654	1.00 92.20	L
ATOM	20753	C	ILE	L	126	75.965	118.100	120.569	1.00 92.69	L
ATOM	20754	O	ILE	L	126	75.570	119.240	120.322	1.00 92.55	L
ATOM	20755	N	ALA	L	127	77.170	117.658	120.236	1.00 90.56	L
ATOM	20756	CA	ALA	L	127	78.146	118.507	119.591	1.00 87.76	L
ATOM	20757	CB	ALA	L	127	79.085	119.081	120.650	1.00 88.58	L
ATOM	20758	C	ALA	L	127	78.947	117.761	118.540	1.00 85.45	L
ATOM	20759	O	ALA	L	127	78.674	116.600	118.236	1.00 85.97	L
ATOM	20760	N	VAL	L	128	79.938	118.455	117.991	1.00 82.73	L
ATOM	20761	CA	VAL	L	128	80.827	117.910	116.980	1.00 79.04	L
ATOM	20762	CB	VAL	L	128	80.300	118.210	115.566	1.00 76.97	L
ATOM	20763	CG1	VAL	L	128	81.321	117.799	114.528	1.00 75.27	L
ATOM	20764	CG2	VAL	L	128	79.004	117.462	115.334	1.00 74.08	L
ATOM	20765	C	VAL	L	128	82.202	118.544	117.168	1.00 79.10	L
ATOM	20766	O	VAL	L	128	82.557	119.495	116.472	1.00 79.97	L
ATOM	20767	N	LEU	L	129	82.961	118.010	118.125	1.00 79.66	L
ATOM	20768	CA	LEU	L	129	84.305	118.499	118.453	1.00 80.32	L
ATOM	20769	CB	LEU	L	129	84.707	118.037	119.855	1.00 78.71	L
ATOM	20770	CG	LEU	L	129	83.702	118.277	120.977	1.00 78.31	L
ATOM	20771	CD1	LEU	L	129	84.254	117.718	122.272	1.00 72.61	L
ATOM	20772	CD2	LEU	L	129	83.417	119.768	121.098	1.00 77.08	L
ATOM	20773	C	LEU	L	129	85.350	117.995	117.469	1.00 81.47	L

ATOM	20774	O	LEU	L	129	85.482	116.786	117.277	1.00	82.88	L
ATOM	20775	N	ILE	L	130	86.103	118.907	116.859	1.00	81.31	L
ATOM	20776	CA	ILE	L	130	87.125	118.492	115.906	1.00	81.20	L
ATOM	20777	CB	ILE	L	130	87.090	119.327	114.610	1.00	79.51	L
ATOM	20778	CG2	ILE	L	130	88.263	118.940	113.724	1.00	80.91	L
ATOM	20779	CG1	ILE	L	130	85.783	119.091	113.854	1.00	79.22	L
ATOM	20780	CD1	ILE	L	130	85.730	119.782	112.496	1.00	75.69	L
ATOM	20781	C	ILE	L	130	88.539	118.566	116.467	1.00	82.29	L
ATOM	20782	O	ILE	L	130	89.008	119.632	116.878	1.00	81.81	L
ATOM	20783	N	LEU	L	131	89.215	117.421	116.471	1.00	82.60	L
ATOM	20784	CA	LEU	L	131	90.582	117.339	116.959	1.00	83.22	L
ATOM	20785	CB	LEU	L	131	90.842	115.965	117.582	1.00	82.39	L
ATOM	20786	CG	LEU	L	131	92.201	115.755	118.266	1.00	85.30	L
ATOM	20787	CD1	LEU	L	131	92.129	114.506	119.132	1.00	80.96	L
ATOM	20788	CD2	LEU	L	131	93.327	115.640	117.233	1.00	86.20	L
ATOM	20789	C	LEU	L	131	91.532	117.566	115.794	1.00	84.97	L
ATOM	20790	O	LEU	L	131	91.444	116.891	114.771	1.00	86.03	L
ATOM	20791	N	ARG	L	132	92.439	118.523	115.955	1.00	86.68	L
ATOM	20792	CA	ARG	L	132	93.416	118.847	114.920	1.00	86.79	L
ATOM	20793	CB	ARG	L	132	93.510	120.358	114.751	1.00	89.45	L
ATOM	20794	CG	ARG	L	132	94.628	120.825	113.843	1.00	90.76	L
ATOM	20795	CD	ARG	L	132	94.117	121.193	112.467	1.00	93.02	L
ATOM	20796	NE	ARG	L	132	94.918	122.267	111.889	1.00	95.53	L
ATOM	20797	CZ	ARG	L	132	94.752	122.755	110.665	1.00	98.72	L
ATOM	20798	NH1	ARG	L	132	93.806	122.267	109.866	1.00	98.10	L
ATOM	20799	NH2	ARG	L	132	95.536	123.738	110.244	1.00	101.33	L
ATOM	20800	C	ARG	L	132	94.765	118.308	115.353	1.00	86.07	L
ATOM	20801	O	ARG	L	132	95.224	118.602	116.459	1.00	84.34	L
ATOM	20802	N	GLN	L	133	95.407	117.536	114.481	1.00	85.83	L
ATOM	20803	CA	GLN	L	133	96.700	116.953	114.815	1.00	85.03	L
ATOM	20804	CB	GLN	L	133	96.565	115.433	114.954	1.00	86.32	L
ATOM	20805	CG	GLN	L	133	97.800	114.746	115.515	1.00	90.06	L
ATOM	20806	CD	GLN	L	133	98.520	113.888	114.493	1.00	93.48	L
ATOM	20807	OE1	GLN	L	133	97.933	112.980	113.900	1.00	96.92	L
ATOM	20808	NE2	GLN	L	133	99.801	114.165	114.288	1.00	94.16	L
ATOM	20809	C	GLN	L	133	97.813	117.274	113.829	1.00	82.89	L
ATOM	20810	O	GLN	L	133	97.644	117.149	112.613	1.00	82.65	L
ATOM	20811	N	THR	L	134	98.950	117.694	114.379	1.00	80.04	L
ATOM	20812	CA	THR	L	134	100.142	118.028	113.605	1.00	78.44	L
ATOM	20813	CB	THR	L	134	100.295	119.542	113.391	1.00	74.37	L
ATOM	20814	OG1	THR	L	134	100.445	120.195	114.659	1.00	74.29	L
ATOM	20815	CG2	THR	L	134	99.096	120.094	112.656	1.00	67.03	L
ATOM	20816	C	THR	L	134	101.331	117.546	114.420	1.00	80.41	L
ATOM	20817	O	THR	L	134	101.151	116.804	115.381	1.00	80.98	L
ATOM	20818	N	ASN	L	135	102.537	117.964	114.039	1.00	82.96	L
ATOM	20819	CA	ASN	L	135	103.753	117.570	114.752	1.00	86.06	L
ATOM	20820	CB	ASN	L	135	104.022	116.074	114.586	1.00	87.19	L
ATOM	20821	CG	ASN	L	135	104.191	115.671	113.135	1.00	90.46	L
ATOM	20822	OD1	ASN	L	135	104.956	116.290	112.390	1.00	92.80	L
ATOM	20823	ND2	ASN	L	135	103.486	114.623	112.726	1.00	88.18	L
ATOM	20824	C	ASN	L	135	104.950	118.349	114.237	1.00	87.65	L
ATOM	20825	O	ASN	L	135	104.863	119.023	113.207	1.00	88.95	L
ATOM	20826	N	ASN	L	136	106.069	118.244	114.948	1.00	87.83	L
ATOM	20827	CA	ASN	L	136	107.285	118.961	114.569	1.00	90.59	L
ATOM	20828	CB	ASN	L	136	108.052	119.412	115.828	1.00	86.23	L
ATOM	20829	CG	ASN	L	136	108.553	118.243	116.675	1.00	81.18	L
ATOM	20830	OD1	ASN	L	136	109.275	118.437	117.657	1.00	75.43	L
ATOM	20831	ND2	ASN	L	136	108.169	117.026	116.298	1.00	78.89	L

ATOM	20832	C	ASN	L	136	108.214	118.141	113.677	1.00	94.38	L
ATOM	20833	O	ASN	L	136	109.432	118.309	113.724	1.00	94.46	L
ATOM	20834	N	TYR	L	137	107.641	117.273	112.848	1.00	99.26	L
ATOM	20835	CA	TYR	L	137	108.450	116.420	111.982	1.00	102.21	L
ATOM	20836	CB	TYR	L	137	108.210	114.951	112.356	1.00	105.04	L
ATOM	20837	CG	TYR	L	137	109.185	113.974	111.739	1.00	107.17	L
ATOM	20838	CD1	TYR	L	137	110.561	114.130	111.907	1.00	108.25	L
ATOM	20839	CE1	TYR	L	137	111.463	113.223	111.356	1.00	109.73	L
ATOM	20840	CD2	TYR	L	137	108.731	112.881	111.001	1.00	107.50	L
ATOM	20841	CE2	TYR	L	137	109.622	111.967	110.447	1.00	110.67	L
ATOM	20842	CZ	TYR	L	137	110.987	112.144	110.627	1.00	110.75	L
ATOM	20843	OH	TYR	L	137	111.871	111.250	110.067	1.00	112.76	L
ATOM	20844	C	TYR	L	137	108.208	116.628	110.489	1.00	102.28	L
ATOM	20845	O	TYR	L	137	109.156	116.800	109.723	1.00	101.36	L
ATOM	20846	N	ASN	L	138	106.947	116.615	110.072	1.00	103.24	L
ATOM	20847	CA	ASN	L	138	106.633	116.799	108.661	1.00	106.35	L
ATOM	20848	CB	ASN	L	138	106.542	115.443	107.964	1.00	109.08	L
ATOM	20849	CG	ASN	L	138	105.580	114.506	108.653	1.00	112.28	L
ATOM	20850	OD1	ASN	L	138	105.881	113.959	109.713	1.00	115.20	L
ATOM	20851	ND2	ASN	L	138	104.404	114.328	108.062	1.00	114.09	L
ATOM	20852	C	ASN	L	138	105.344	117.573	108.421	1.00	107.43	L
ATOM	20853	O	ASN	L	138	104.802	118.195	109.333	1.00	108.04	L
ATOM	20854	N	SER	L	139	104.862	117.518	107.181	1.00	108.41	L
ATOM	20855	CA	SER	L	139	103.645	118.212	106.764	1.00	109.53	L
ATOM	20856	CB	SER	L	139	103.613	118.312	105.234	1.00	110.25	L
ATOM	20857	OG	SER	L	139	103.767	117.034	104.634	1.00	110.24	L
ATOM	20858	C	SER	L	139	102.342	117.575	107.257	1.00	109.45	L
ATOM	20859	O	SER	L	139	101.268	117.836	106.698	1.00	108.79	L
ATOM	20860	N	ASP	L	140	102.434	116.752	108.300	1.00	108.24	L
ATOM	20861	CA	ASP	L	140	101.257	116.082	108.848	1.00	107.70	L
ATOM	20862	CB	ASP	L	140	101.686	114.937	109.772	1.00	110.11	L
ATOM	20863	CG	ASP	L	140	101.617	113.579	109.086	1.00	112.90	L
ATOM	20864	OD1	ASP	L	140	101.968	112.562	109.724	1.00	113.08	L
ATOM	20865	OD2	ASP	L	140	101.204	113.528	107.906	1.00	114.21	L
ATOM	20866	C	ASP	L	140	100.271	117.004	109.574	1.00	105.09	L
ATOM	20867	O	ASP	L	140	100.606	117.658	110.562	1.00	102.96	L
ATOM	20868	N	ASP	L	141	99.044	117.031	109.062	1.00	103.42	L
ATOM	20869	CA	ASP	L	141	97.972	117.856	109.604	1.00	101.97	L
ATOM	20870	CB	ASP	L	141	97.956	119.201	108.871	1.00	100.58	L
ATOM	20871	CG	ASP	L	141	96.992	120.192	109.477	1.00	97.46	L
ATOM	20872	OD1	ASP	L	141	95.784	119.885	109.569	1.00	95.00	L
ATOM	20873	OD2	ASP	L	141	97.450	121.288	109.853	1.00	97.01	L
ATOM	20874	C	ASP	L	141	96.649	117.120	109.381	1.00	101.22	L
ATOM	20875	O	ASP	L	141	96.101	117.135	108.276	1.00	100.33	L
ATOM	20876	N	PHE	L	142	96.134	116.484	110.428	1.00	100.00	L
ATOM	20877	CA	PHE	L	142	94.891	115.737	110.302	1.00	99.49	L
ATOM	20878	CB	PHE	L	142	95.162	114.264	110.585	1.00	99.92	L
ATOM	20879	CG	PHE	L	142	96.257	113.685	109.742	1.00	100.59	L
ATOM	20880	CD1	PHE	L	142	97.477	113.334	110.307	1.00	99.51	L
ATOM	20881	CD2	PHE	L	142	96.069	113.494	108.374	1.00	100.20	L
ATOM	20882	CE1	PHE	L	142	98.497	112.799	109.521	1.00	100.90	L
ATOM	20883	CE2	PHE	L	142	97.080	112.961	107.580	1.00	99.52	L
ATOM	20884	CZ	PHE	L	142	98.297	112.611	108.155	1.00	100.36	L
ATOM	20885	C	PHE	L	142	93.773	116.241	111.205	1.00	99.71	L
ATOM	20886	O	PHE	L	142	94.015	117.002	112.142	1.00	100.22	L
ATOM	20887	N	GLN	L	143	92.546	115.808	110.916	1.00	99.22	L
ATOM	20888	CA	GLN	L	143	91.384	116.218	111.698	1.00	97.23	L
ATOM	20889	CB	GLN	L	143	90.424	117.040	110.836	1.00	98.83	L

ATOM	20890	CG	GLN	L	143	91.061	118.230	110.133	1.00106.63	L
ATOM	20891	CD	GLN	L	143	90.034	119.257	109.660	1.00109.25	L
ATOM	20892	OE1	GLN	L	143	88.993	118.903	109.097	1.00109.69	L
ATOM	20893	NE2	GLN	L	143	90.332	120.539	109.881	1.00108.17	L
ATOM	20894	C	GLN	L	143	90.611	115.055	112.319	1.00 95.55	L
ATOM	20895	O	GLN	L	143	89.591	114.625	111.780	1.00 94.93	L
ATOM	20896	N	PHE	L	144	91.100	114.552	113.452	1.00 94.24	L
ATOM	20897	CA	PHE	L	144	90.435	113.462	114.171	1.00 92.10	L
ATOM	20898	CB	PHE	L	144	91.244	113.055	115.411	1.00 89.25	L
ATOM	20899	CG	PHE	L	144	92.538	112.346	115.100	1.00 89.97	L
ATOM	20900	CD1	PHE	L	144	93.522	112.961	114.326	1.00 88.96	L
ATOM	20901	CD2	PHE	L	144	92.774	111.059	115.587	1.00 86.90	L
ATOM	20902	CE1	PHE	L	144	94.717	112.303	114.041	1.00 84.95	L
ATOM	20903	CE2	PHE	L	144	93.961	110.396	115.308	1.00 82.57	L
ATOM	20904	CZ	PHE	L	144	94.935	111.019	114.533	1.00 83.58	L
ATOM	20905	C	PHE	L	144	89.063	113.965	114.620	1.00 92.07	L
ATOM	20906	O	PHE	L	144	88.954	114.648	115.638	1.00 93.04	L
ATOM	20907	N	VAL	L	145	88.022	113.619	113.869	1.00 91.17	L
ATOM	20908	CA	VAL	L	145	86.664	114.058	114.180	1.00 90.03	L
ATOM	20909	CB	VAL	L	145	85.800	114.053	112.917	1.00 87.64	L
ATOM	20910	CG1	VAL	L	145	84.535	114.849	113.157	1.00 86.20	L
ATOM	20911	CG2	VAL	L	145	86.591	114.615	111.754	1.00 87.89	L
ATOM	20912	C	VAL	L	145	85.944	113.236	115.249	1.00 91.58	L
ATOM	20913	O	VAL	L	145	86.274	112.076	115.489	1.00 91.95	L
ATOM	20914	N	TRP	L	146	84.956	113.852	115.890	1.00 93.81	L
ATOM	20915	CA	TRP	L	146	84.177	113.184	116.926	1.00 96.62	L
ATOM	20916	CB	TRP	L	146	84.785	113.420	118.313	1.00 97.19	L
ATOM	20917	CG	TRP	L	146	86.263	113.170	118.404	1.00 99.89	L
ATOM	20918	CD2	TRP	L	146	86.906	111.949	118.792	1.00100.34	L
ATOM	20919	CE2	TRP	L	146	88.298	112.171	118.726	1.00101.27	L
ATOM	20920	CE3	TRP	L	146	86.440	110.688	119.188	1.00 99.68	L
ATOM	20921	CD1	TRP	L	146	87.264	114.057	118.128	1.00100.91	L
ATOM	20922	NE1	TRP	L	146	88.489	113.466	118.320	1.00101.69	L
ATOM	20923	CZ2	TRP	L	146	89.233	111.177	119.043	1.00101.37	L
ATOM	20924	CZ3	TRP	L	146	87.372	109.700	119.504	1.00 99.47	L
ATOM	20925	CH2	TRP	L	146	88.751	109.952	119.427	1.00 99.82	L
ATOM	20926	C	TRP	L	146	82.740	113.695	116.932	1.00 98.19	L
ATOM	20927	O	TRP	L	146	82.484	114.860	116.630	1.00 99.25	L
ATOM	20928	N	ASN	L	147	81.807	112.813	117.278	1.00 98.72	L
ATOM	20929	CA	ASN	L	147	80.393	113.162	117.346	1.00 97.24	L
ATOM	20930	CB	ASN	L	147	79.616	112.500	116.206	1.00 96.46	L
ATOM	20931	CG	ASN	L	147	80.088	112.962	114.843	1.00 99.08	L
ATOM	20932	OD1	ASN	L	147	80.186	114.161	114.587	1.00100.11	L
ATOM	20933	ND2	ASN	L	147	80.380	112.014	113.959	1.00100.25	L
ATOM	20934	C	ASN	L	147	79.839	112.715	118.687	1.00 95.29	L
ATOM	20935	O	ASN	L	147	79.737	111.525	118.970	1.00 95.76	L
ATOM	20936	N	ILE	L	148	79.487	113.685	119.515	1.00 93.82	L
ATOM	20937	CA	ILE	L	148	78.959	113.397	120.833	1.00 93.12	L
ATOM	20938	CB	ILE	L	148	79.305	114.533	121.803	1.00 93.54	L
ATOM	20939	CG2	ILE	L	148	78.841	114.181	123.209	1.00 93.67	L
ATOM	20940	CG1	ILE	L	148	80.814	114.806	121.759	1.00 95.07	L
ATOM	20941	CD1	ILE	L	148	81.689	113.643	122.208	1.00 95.98	L
ATOM	20942	C	ILE	L	148	77.446	113.216	120.812	1.00 94.04	L
ATOM	20943	O	ILE	L	148	76.725	114.051	120.265	1.00 94.66	L
ATOM	20944	N	TYR	L	149	76.979	112.115	121.405	1.00 93.96	L
ATOM	20945	CA	TYR	L	149	75.551	111.797	121.496	1.00 92.63	L
ATOM	20946	CB	TYR	L	149	75.194	110.579	120.636	1.00 86.32	L
ATOM	20947	CG	TYR	L	149	75.260	110.796	119.141	1.00 81.19	L

ATOM	20948	CD1	TYR	L	149	76.481	110.901	118.482	1.00	81.29	L
ATOM	20949	CE1	TYR	L	149	76.543	111.055	117.094	1.00	82.61	L
ATOM	20950	CD2	TYR	L	149	74.099	110.857	118.379	1.00	80.94	L
ATOM	20951	CE2	TYR	L	149	74.149	111.012	116.991	1.00	82.14	L
ATOM	20952	CZ	TYR	L	149	75.371	111.107	116.353	1.00	81.23	L
ATOM	20953	OH	TYR	L	149	75.417	111.237	114.980	1.00	75.32	L
ATOM	20954	C	TYR	L	149	75.194	111.485	122.947	1.00	95.22	L
ATOM	20955	O	TYR	L	149	76.036	111.011	123.707	1.00	95.84	L
ATOM	20956	N	ALA	L	150	73.950	111.753	123.332	1.00	99.77	L
ATOM	20957	CA	ALA	L	150	73.496	111.476	124.695	1.00	104.13	L
ATOM	20958	CB	ALA	L	150	72.909	112.744	125.328	1.00	100.17	L
ATOM	20959	C	ALA	L	150	72.449	110.356	124.666	1.00	107.26	L
ATOM	20960	O	ALA	L	150	71.367	110.516	124.095	1.00	107.72	L
ATOM	20961	N	ASN	L	151	72.779	109.220	125.277	1.00	109.51	L
ATOM	20962	CA	ASN	L	151	71.863	108.082	125.303	1.00	111.60	L
ATOM	20963	CB	ASN	L	151	72.612	106.797	125.678	1.00	114.96	L
ATOM	20964	CG	ASN	L	151	73.664	106.405	124.654	1.00	117.47	L
ATOM	20965	OD1	ASN	L	151	73.364	106.218	123.473	1.00	118.63	L
ATOM	20966	ND2	ASN	L	151	74.905	106.269	125.106	1.00	116.36	L
ATOM	20967	C	ASN	L	151	70.707	108.282	126.280	1.00	110.80	L
ATOM	20968	O	ASN	L	151	69.822	107.433	126.379	1.00	110.08	L
ATOM	20969	N	ASN	L	152	70.711	109.403	126.993	1.00	110.23	L
ATOM	20970	CA	ASN	L	152	69.665	109.683	127.969	1.00	109.91	L
ATOM	20971	CB	ASN	L	152	70.228	109.530	129.382	1.00	107.74	L
ATOM	20972	CG	ASN	L	152	71.374	110.481	129.655	1.00	106.00	L
ATOM	20973	OD1	ASN	L	152	72.380	110.480	128.942	1.00	103.98	L
ATOM	20974	ND2	ASN	L	152	71.228	111.302	130.688	1.00	102.87	L
ATOM	20975	C	ASN	L	152	69.081	111.080	127.812	1.00	110.79	L
ATOM	20976	O	ASN	L	152	69.786	112.017	127.451	1.00	111.67	L
ATOM	20977	N	ASP	L	153	67.788	111.212	128.088	1.00	112.40	L
ATOM	20978	CA	ASP	L	153	67.111	112.500	127.992	1.00	114.93	L
ATOM	20979	CB	ASP	L	153	65.586	112.328	128.020	1.00	116.51	L
ATOM	20980	CG	ASP	L	153	65.073	111.374	126.962	1.00	118.21	L
ATOM	20981	OD1	ASP	L	153	65.347	111.597	125.763	1.00	119.85	L
ATOM	20982	OD2	ASP	L	153	64.381	110.403	127.336	1.00	119.38	L
ATOM	20983	C	ASP	L	153	67.493	113.370	129.182	1.00	116.39	L
ATOM	20984	O	ASP	L	153	67.280	112.977	130.330	1.00	116.25	L
ATOM	20985	N	VAL	L	154	68.063	114.543	128.931	1.00	117.83	L
ATOM	20986	CA	VAL	L	154	68.397	115.421	130.045	1.00	118.66	L
ATOM	20987	CB	VAL	L	154	69.528	116.417	129.710	1.00	117.57	L
ATOM	20988	CG1	VAL	L	154	69.875	117.240	130.950	1.00	112.99	L
ATOM	20989	CG2	VAL	L	154	70.752	115.670	129.219	1.00	118.38	L
ATOM	20990	C	VAL	L	154	67.119	116.196	130.321	1.00	119.29	L
ATOM	20991	O	VAL	L	154	66.239	116.282	129.461	1.00	117.78	L
ATOM	20992	N	VAL	L	155	67.009	116.748	131.521	1.00	120.59	L
ATOM	20993	CA	VAL	L	155	65.824	117.498	131.888	1.00	122.19	L
ATOM	20994	CB	VAL	L	155	64.833	116.619	132.689	1.00	123.16	L
ATOM	20995	CG1	VAL	L	155	63.600	117.427	133.063	1.00	125.29	L
ATOM	20996	CG2	VAL	L	155	64.433	115.406	131.870	1.00	122.86	L
ATOM	20997	C	VAL	L	155	66.203	118.701	132.729	1.00	123.19	L
ATOM	20998	O	VAL	L	155	67.207	118.681	133.436	1.00	121.87	L
ATOM	20999	N	VAL	L	156	65.394	119.749	132.633	1.00	125.80	L
ATOM	21000	CA	VAL	L	156	65.610	120.974	133.388	1.00	129.18	L
ATOM	21001	CB	VAL	L	156	66.149	122.098	132.487	1.00	129.24	L
ATOM	21002	CG1	VAL	L	156	66.525	123.298	133.333	1.00	127.69	L
ATOM	21003	CG2	VAL	L	156	67.352	121.600	131.695	1.00	129.88	L
ATOM	21004	C	VAL	L	156	64.260	121.389	133.962	1.00	131.48	L
ATOM	21005	O	VAL	L	156	63.726	122.445	133.626	1.00	132.48	L

ATOM	21006	N	PRO	L	157	63.703	120.556	134.855	1.00133.03	L
ATOM	21007	CD	PRO	L	157	64.482	119.510	135.547	1.00134.41	L
ATOM	21008	CA	PRO	L	157	62.415	120.749	135.522	1.00133.45	L
ATOM	21009	CB	PRO	L	157	62.670	120.175	136.909	1.00133.86	L
ATOM	21010	CG	PRO	L	157	63.492	118.976	136.581	1.00135.16	L
ATOM	21011	C	PRO	L	157	61.854	122.165	135.564	1.00133.09	L
ATOM	21012	O	PRO	L	157	62.572	123.134	135.818	1.00133.18	L
ATOM	21013	N	THR	L	158	60.553	122.257	135.301	1.00132.56	L
ATOM	21014	CA	THR	L	158	59.829	123.517	135.312	1.00132.02	L
ATOM	21015	CB	THR	L	158	58.467	123.357	134.608	1.00131.55	L
ATOM	21016	OG1	THR	L	158	57.692	124.548	134.782	1.00131.99	L
ATOM	21017	CG2	THR	L	158	57.711	122.166	135.180	1.00131.54	L
ATOM	21018	C	THR	L	158	59.613	123.921	136.770	1.00132.27	L
ATOM	21019	O	THR	L	158	59.444	123.059	137.634	1.00132.56	L
ATOM	21020	N	GLY	L	159	59.623	125.223	137.043	1.00132.65	L
ATOM	21021	CA	GLY	L	159	59.444	125.680	138.411	1.00134.10	L
ATOM	21022	C	GLY	L	159	58.602	126.929	138.609	1.00135.22	L
ATOM	21023	O	GLY	L	159	58.030	127.467	137.660	1.00134.72	L
ATOM	21024	N	GLY	L	160	58.538	127.383	139.861	1.00136.82	L
ATOM	21025	CA	GLY	L	160	57.768	128.562	140.225	1.00139.58	L
ATOM	21026	C	GLY	L	160	57.680	129.639	139.163	1.00141.87	L
ATOM	21027	O	GLY	L	160	58.701	130.110	138.663	1.00142.83	L
ATOM	21028	N	CYS	L	161	56.455	130.034	138.824	1.00143.17	L
ATOM	21029	CA	CYS	L	161	56.226	131.055	137.809	1.00144.18	L
ATOM	21030	C	CYS	L	161	56.445	132.459	138.346	1.00145.18	L
ATOM	21031	O	CYS	L	161	56.464	132.680	139.559	1.00144.17	L
ATOM	21032	CB	CYS	L	161	54.812	130.933	137.249	1.00144.15	L
ATOM	21033	SG	CYS	L	161	54.509	129.349	136.410	1.00145.77	L
ATOM	21034	N	ASP	L	162	56.598	133.400	137.420	1.00147.42	L
ATOM	21035	CA	ASP	L	162	56.843	134.799	137.744	1.00150.12	L
ATOM	21036	CB	ASP	L	162	57.262	135.549	136.478	1.00150.40	L
ATOM	21037	CG	ASP	L	162	57.598	136.999	136.746	1.00151.65	L
ATOM	21038	OD1	ASP	L	162	58.526	137.258	137.544	1.00152.23	L
ATOM	21039	OD2	ASP	L	162	56.934	137.879	136.159	1.00152.76	L
ATOM	21040	C	ASP	L	162	55.650	135.505	138.380	1.00152.02	L
ATOM	21041	O	ASP	L	162	54.680	135.836	137.700	1.00152.24	L
ATOM	21042	N	VAL	L	163	55.738	135.743	139.687	1.00153.78	L
ATOM	21043	CA	VAL	L	163	54.676	136.418	140.423	1.00154.78	L
ATOM	21044	CB	VAL	L	163	54.651	135.979	141.900	1.00153.61	L
ATOM	21045	CG1	VAL	L	163	53.463	136.605	142.605	1.00153.56	L
ATOM	21046	CG2	VAL	L	163	54.590	134.469	141.992	1.00153.56	L
ATOM	21047	C	VAL	L	163	54.886	137.927	140.375	1.00156.44	L
ATOM	21048	O	VAL	L	163	55.545	138.496	141.244	1.00156.30	L
ATOM	21049	N	SER	L	164	54.326	138.567	139.353	1.00158.60	L
ATOM	21050	CA	SER	L	164	54.453	140.012	139.189	1.00160.84	L
ATOM	21051	CB	SER	L	164	54.325	140.395	137.711	1.00160.62	L
ATOM	21052	OG	SER	L	164	55.308	139.752	136.920	1.00160.48	L
ATOM	21053	C	SER	L	164	53.395	140.754	139.997	1.00162.70	L
ATOM	21054	O	SER	L	164	52.201	140.488	139.869	1.00162.91	L
ATOM	21055	N	ALA	L	165	53.846	141.688	140.827	1.00164.81	L
ATOM	21056	CA	ALA	L	165	52.954	142.482	141.660	1.00167.05	L
ATOM	21057	CB	ALA	L	165	52.535	141.684	142.884	1.00166.53	L
ATOM	21058	C	ALA	L	165	53.686	143.746	142.082	1.00169.20	L
ATOM	21059	O	ALA	L	165	54.544	143.706	142.963	1.00169.05	L
ATOM	21060	N	ARG	L	166	53.344	144.861	141.443	1.00172.36	L
ATOM	21061	CA	ARG	L	166	53.968	146.150	141.729	1.00175.67	L
ATOM	21062	CB	ARG	L	166	52.996	147.293	141.416	1.00176.53	L
ATOM	21063	CG	ARG	L	166	52.677	147.429	139.939	1.00178.29	L

ATOM	21064	CD	ARG	L	166	51.894	148.694	139.641	1.00179.01	L
ATOM	21065	NE	ARG	L	166	51.716	148.882	138.203	1.00180.36	L
ATOM	21066	CZ	ARG	L	166	51.110	149.928	137.652	1.00180.57	L
ATOM	21067	NH1	ARG	L	166	50.616	150.893	138.416	1.00181.38	L
ATOM	21068	NH2	ARG	L	166	50.997	150.009	136.334	1.00180.82	L
ATOM	21069	C	ARG	L	166	54.460	146.283	143.164	1.00177.27	L
ATOM	21070	O	ARG	L	166	55.663	146.222	143.424	1.00176.89	L
ATOM	21071	N	ASP	L	167	53.524	146.456	144.090	1.00179.55	L
ATOM	21072	CA	ASP	L	167	53.859	146.607	145.499	1.00181.95	L
ATOM	21073	CB	ASP	L	167	54.869	147.741	145.674	1.00182.14	L
ATOM	21074	CG	ASP	L	167	54.479	148.990	144.906	1.00181.80	L
ATOM	21075	OD1	ASP	L	167	55.273	149.953	144.901	1.00182.26	L
ATOM	21076	OD2	ASP	L	167	53.381	149.011	144.307	1.00180.56	L
ATOM	21077	C	ASP	L	167	52.609	146.898	146.316	1.00183.70	L
ATOM	21078	O	ASP	L	167	51.591	147.323	145.769	1.00183.47	L
ATOM	21079	N	VAL	L	168	52.699	146.670	147.624	1.00186.05	L
ATOM	21080	CA	VAL	L	168	51.582	146.897	148.537	1.00188.63	L
ATOM	21081	CB	VAL	L	168	52.083	147.062	149.999	1.00188.60	L
ATOM	21082	CG1	VAL	L	168	53.160	148.132	150.065	1.00189.70	L
ATOM	21083	CG2	VAL	L	168	50.919	147.413	150.918	1.00188.25	L
ATOM	21084	C	VAL	L	168	50.742	148.113	148.142	1.00190.31	L
ATOM	21085	O	VAL	L	168	51.117	149.259	148.392	1.00190.58	L
ATOM	21086	N	THR	L	169	49.602	147.845	147.513	1.00191.71	L
ATOM	21087	CA	THR	L	169	48.698	148.899	147.076	1.00192.44	L
ATOM	21088	CB	THR	L	169	47.666	148.366	146.054	1.00192.40	L
ATOM	21089	OG1	THR	L	169	48.351	147.821	144.919	1.00192.37	L
ATOM	21090	CG2	THR	L	169	46.742	149.485	145.590	1.00191.97	L
ATOM	21091	C	THR	L	169	47.949	149.470	148.271	1.00193.11	L
ATOM	21092	O	THR	L	169	47.682	148.768	149.248	1.00192.92	L
ATOM	21093	N	VAL	L	170	47.621	150.753	148.189	1.00193.92	L
ATOM	21094	CA	VAL	L	170	46.893	151.423	149.254	1.00194.64	L
ATOM	21095	CB	VAL	L	170	47.499	152.810	149.552	1.00194.85	L
ATOM	21096	CG1	VAL	L	170	46.806	153.435	150.753	1.00194.69	L
ATOM	21097	CG2	VAL	L	170	48.994	152.679	149.802	1.00194.96	L
ATOM	21098	C	VAL	L	170	45.448	151.589	148.803	1.00194.94	L
ATOM	21099	O	VAL	L	170	45.170	151.663	147.604	1.00194.93	L
ATOM	21100	N	THR	L	171	44.528	151.640	149.759	1.00194.75	L
ATOM	21101	CA	THR	L	171	43.120	151.792	149.427	1.00194.56	L
ATOM	21102	CB	THR	L	171	42.277	150.676	150.059	1.00193.75	L
ATOM	21103	OG1	THR	L	171	42.840	149.403	149.719	1.00192.29	L
ATOM	21104	CG2	THR	L	171	40.853	150.739	149.542	1.00192.97	L
ATOM	21105	C	THR	L	171	42.575	153.136	149.890	1.00195.21	L
ATOM	21106	O	THR	L	171	42.682	153.490	151.065	1.00194.53	L
ATOM	21107	N	LEU	L	172	41.994	153.879	148.953	1.00196.72	L
ATOM	21108	CA	LEU	L	172	41.419	155.185	149.250	1.00198.13	L
ATOM	21109	CB	LEU	L	172	40.673	155.724	148.023	1.00197.78	L
ATOM	21110	CG	LEU	L	172	41.457	155.832	146.711	1.00197.05	L
ATOM	21111	CD1	LEU	L	172	40.522	156.269	145.599	1.00196.78	L
ATOM	21112	CD2	LEU	L	172	42.605	156.818	146.863	1.00196.76	L
ATOM	21113	C	LEU	L	172	40.449	155.037	150.418	1.00199.28	L
ATOM	21114	O	LEU	L	172	39.566	154.178	150.390	1.00199.52	L
ATOM	21115	N	PRO	L	173	40.603	155.869	151.463	1.00199.88	L
ATOM	21116	CD	PRO	L	173	41.533	157.007	151.583	1.00200.00	L
ATOM	21117	CA	PRO	L	173	39.715	155.797	152.629	1.00199.90	L
ATOM	21118	CB	PRO	L	173	40.282	156.868	153.561	1.00199.63	L
ATOM	21119	CG	PRO	L	173	40.841	157.879	152.606	1.00199.73	L
ATOM	21120	C	PRO	L	173	38.257	156.052	152.249	1.00200.00	L
ATOM	21121	O	PRO	L	173	37.871	155.875	151.091	1.00199.88	L

ATOM	21122	N	ASP	L	174	37.449	156.464	153.222	1.00200.00	L
ATOM	21123	CA	ASP	L	174	36.035	156.739	152.976	1.00200.00	L
ATOM	21124	CB	ASP	L	174	35.875	157.785	151.862	1.00200.00	L
ATOM	21125	CG	ASP	L	174	36.558	159.104	152.184	1.00200.00	L
ATOM	21126	OD1	ASP	L	174	37.787	159.106	152.410	1.00200.00	L
ATOM	21127	OD2	ASP	L	174	35.863	160.143	152.202	1.00200.00	L
ATOM	21128	C	ASP	L	174	35.310	155.460	152.557	1.00199.69	L
ATOM	21129	O	ASP	L	174	35.932	154.410	152.388	1.00199.90	L
ATOM	21130	N	TYR	L	175	33.993	155.554	152.396	1.00199.07	L
ATOM	21131	CA	TYR	L	175	33.192	154.411	151.969	1.00198.18	L
ATOM	21132	CB	TYR	L	175	31.696	154.688	152.170	1.00198.70	L
ATOM	21133	CG	TYR	L	175	31.225	154.592	153.607	1.00199.39	L
ATOM	21134	CD1	TYR	L	175	31.781	155.394	154.602	1.00199.74	L
ATOM	21135	CE1	TYR	L	175	31.340	155.315	155.923	1.00200.00	L
ATOM	21136	CD2	TYR	L	175	30.213	153.702	153.969	1.00199.49	L
ATOM	21137	CE2	TYR	L	175	29.764	153.614	155.286	1.00199.57	L
ATOM	21138	CZ	TYR	L	175	30.332	154.423	156.256	1.00199.86	L
ATOM	21139	OH	TYR	L	175	29.892	154.343	157.558	1.00199.49	L
ATOM	21140	C	TYR	L	175	33.471	154.116	150.494	1.00197.18	L
ATOM	21141	O	TYR	L	175	33.670	152.960	150.113	1.00196.70	L
ATOM	21142	N	PRO	L	176	33.485	155.160	149.640	1.00196.26	L
ATOM	21143	CD	PRO	L	176	33.240	156.590	149.911	1.00196.20	L
ATOM	21144	CA	PRO	L	176	33.751	154.949	148.214	1.00194.96	L
ATOM	21145	CB	PRO	L	176	33.416	156.305	147.599	1.00195.26	L
ATOM	21146	CG	PRO	L	176	33.815	157.257	148.680	1.00195.52	L
ATOM	21147	C	PRO	L	176	35.207	154.553	147.997	1.00193.61	L
ATOM	21148	O	PRO	L	176	36.019	155.348	147.520	1.00193.32	L
ATOM	21149	N	GLY	L	177	35.530	153.319	148.366	1.00192.17	L
ATOM	21150	CA	GLY	L	177	36.885	152.830	148.215	1.00190.54	L
ATOM	21151	C	GLY	L	177	36.953	151.576	147.370	1.00189.21	L
ATOM	21152	O	GLY	L	177	36.162	150.647	147.543	1.00188.45	L
ATOM	21153	N	SER	L	178	37.909	151.559	146.449	1.00188.32	L
ATOM	21154	CA	SER	L	178	38.116	150.432	145.550	1.00187.15	L
ATOM	21155	CB	SER	L	178	36.917	150.262	144.613	1.00187.92	L
ATOM	21156	OG	SER	L	178	37.166	149.258	143.643	1.00187.73	L
ATOM	21157	C	SER	L	178	39.364	150.710	144.732	1.00185.73	L
ATOM	21158	O	SER	L	178	39.358	151.565	143.849	1.00185.13	L
ATOM	21159	N	VAL	L	179	40.435	149.988	145.034	1.00184.81	L
ATOM	21160	CA	VAL	L	179	41.692	150.173	144.327	1.00184.16	L
ATOM	21161	CB	VAL	L	179	42.784	150.708	145.287	1.00184.24	L
ATOM	21162	CG1	VAL	L	179	42.430	152.116	145.738	1.00184.77	L
ATOM	21163	CG2	VAL	L	179	42.913	149.796	146.501	1.00184.21	L
ATOM	21164	C	VAL	L	179	42.185	148.889	143.665	1.00183.28	L
ATOM	21165	O	VAL	L	179	43.092	148.226	144.173	1.00183.76	L
ATOM	21166	N	PRO	L	180	41.596	148.522	142.512	1.00181.72	L
ATOM	21167	CD	PRO	L	180	40.678	149.300	141.666	1.00180.87	L
ATOM	21168	CA	PRO	L	180	42.026	147.300	141.825	1.00180.56	L
ATOM	21169	CB	PRO	L	180	41.335	147.404	140.462	1.00180.57	L
ATOM	21170	CG	PRO	L	180	41.110	148.883	140.290	1.00180.43	L
ATOM	21171	C	PRO	L	180	43.547	147.236	141.722	1.00179.29	L
ATOM	21172	O	PRO	L	180	44.169	148.052	141.043	1.00179.04	L
ATOM	21173	N	ILE	L	181	44.135	146.264	142.416	1.00178.12	L
ATOM	21174	CA	ILE	L	181	45.585	146.085	142.440	1.00177.04	L
ATOM	21175	CB	ILE	L	181	46.021	145.284	143.690	1.00177.19	L
ATOM	21176	CG2	ILE	L	181	47.538	145.134	143.711	1.00177.19	L
ATOM	21177	CG1	ILE	L	181	45.532	145.986	144.958	1.00177.11	L
ATOM	21178	CD1	ILE	L	181	45.844	145.234	146.238	1.00177.15	L
ATOM	21179	C	ILE	L	181	46.132	145.368	141.206	1.00175.39	L

ATOM	21180	O	ILE	L	181	45.636	144.308	140.820	1.00175.95	L
ATOM	21181	N	PRO	L	182	47.167	145.946	140.568	1.00172.68	L
ATOM	21182	CD	PRO	L	182	47.685	147.310	140.775	1.00172.09	L
ATOM	21183	CA	PRO	L	182	47.771	145.341	139.377	1.00169.66	L
ATOM	21184	CB	PRO	L	182	48.740	146.421	138.894	1.00170.20	L
ATOM	21185	CG	PRO	L	182	48.109	147.693	139.382	1.00170.98	L
ATOM	21186	C	PRO	L	182	48.494	144.045	139.747	1.00166.29	L
ATOM	21187	O	PRO	L	182	49.295	144.021	140.686	1.00165.80	L
ATOM	21188	N	LEU	L	183	48.208	142.971	139.016	1.00162.04	L
ATOM	21189	CA	LEU	L	183	48.845	141.689	139.287	1.00157.53	L
ATOM	21190	CB	LEU	L	183	48.188	141.028	140.503	1.00156.33	L
ATOM	21191	CG	LEU	L	183	49.117	140.838	141.707	1.00154.74	L
ATOM	21192	CD1	LEU	L	183	48.320	140.806	142.999	1.00153.41	L
ATOM	21193	CD2	LEU	L	183	49.915	139.560	141.524	1.00153.95	L
ATOM	21194	C	LEU	L	183	48.815	140.748	138.087	1.00154.71	L
ATOM	21195	O	LEU	L	183	47.750	140.381	137.594	1.00153.54	L
ATOM	21196	N	THR	L	184	50.006	140.373	137.627	1.00152.49	L
ATOM	21197	CA	THR	L	184	50.182	139.479	136.486	1.00149.81	L
ATOM	21198	CB	THR	L	184	50.685	140.246	135.247	1.00148.72	L
ATOM	21199	OG1	THR	L	184	51.181	139.316	134.279	1.00147.34	L
ATOM	21200	CG2	THR	L	184	51.796	141.211	135.628	1.00146.63	L
ATOM	21201	C	THR	L	184	51.205	138.403	136.824	1.00148.99	L
ATOM	21202	O	THR	L	184	52.046	138.599	137.698	1.00149.53	L
ATOM	21203	N	VAL	L	185	51.135	137.271	136.132	1.00147.77	L
ATOM	21204	CA	VAL	L	185	52.066	136.171	136.371	1.00147.36	L
ATOM	21205	CB	VAL	L	185	51.613	135.293	137.572	1.00147.02	L
ATOM	21206	CG1	VAL	L	185	52.431	134.009	137.624	1.00145.90	L
ATOM	21207	CG2	VAL	L	185	51.771	136.064	138.876	1.00145.85	L
ATOM	21208	C	VAL	L	185	52.217	135.268	135.148	1.00147.32	L
ATOM	21209	O	VAL	L	185	51.228	134.786	134.597	1.00146.98	L
ATOM	21210	N	TYR	L	186	53.461	135.047	134.728	1.00147.25	L
ATOM	21211	CA	TYR	L	186	53.741	134.186	133.585	1.00146.63	L
ATOM	21212	CB	TYR	L	186	54.013	135.025	132.332	1.00147.19	L
ATOM	21213	CG	TYR	L	186	55.257	135.879	132.385	1.00147.76	L
ATOM	21214	CD1	TYR	L	186	56.375	135.563	131.612	1.00147.65	L
ATOM	21215	CE1	TYR	L	186	57.514	136.358	131.636	1.00148.39	L
ATOM	21216	CD2	TYR	L	186	55.311	137.017	133.188	1.00147.97	L
ATOM	21217	CE2	TYR	L	186	56.445	137.821	133.219	1.00148.87	L
ATOM	21218	CZ	TYR	L	186	57.543	137.485	132.441	1.00148.79	L
ATOM	21219	OH	TYR	L	186	58.666	138.279	132.467	1.00149.17	L
ATOM	21220	C	TYR	L	186	54.929	133.288	133.908	1.00145.85	L
ATOM	21221	O	TYR	L	186	55.675	133.557	134.851	1.00145.02	L
ATOM	21222	N	CYS	L	187	55.102	132.222	133.129	1.00145.61	L
ATOM	21223	CA	CYS	L	187	56.184	131.269	133.366	1.00145.37	L
ATOM	21224	C	CYS	L	187	57.178	131.172	132.213	1.00144.41	L
ATOM	21225	O	CYS	L	187	56.907	131.628	131.101	1.00144.53	L
ATOM	21226	CB	CYS	L	187	55.598	129.877	133.619	1.00146.62	L
ATOM	21227	SG	CYS	L	187	54.011	129.867	134.512	1.00146.71	L
ATOM	21228	N	ALA	L	188	58.331	130.568	132.491	1.00142.91	L
ATOM	21229	CA	ALA	L	188	59.360	130.375	131.479	1.00141.01	L
ATOM	21230	CB	ALA	L	188	60.633	129.859	132.123	1.00140.88	L
ATOM	21231	C	ALA	L	188	58.805	129.346	130.501	1.00140.24	L
ATOM	21232	O	ALA	L	188	59.160	129.324	129.322	1.00139.61	L
ATOM	21233	N	LYS	L	189	57.923	128.496	131.020	1.00140.52	L
ATOM	21234	CA	LYS	L	189	57.262	127.452	130.243	1.00139.62	L
ATOM	21235	CB	LYS	L	189	57.882	126.085	130.538	1.00139.37	L
ATOM	21236	CG	LYS	L	189	59.205	125.844	129.833	1.00139.48	L
ATOM	21237	CD	LYS	L	189	59.038	125.866	128.316	1.00139.23	L

ATOM	21238	CE	LYS	L	189	58.060	124.800	127.849	1.00139.77	L
ATOM	21239	NZ	LYS	L	189	57.904	124.797	126.371	1.00140.08	L
ATOM	21240	C	LYS	L	189	55.772	127.426	130.572	1.00138.37	L
ATOM	21241	O	LYS	L	189	55.379	127.255	131.728	1.00137.10	L
ATOM	21242	N	SER	L	190	54.951	127.602	129.543	1.00137.92	L
ATOM	21243	CA	SER	L	190	53.503	127.613	129.697	1.00137.90	L
ATOM	21244	CB	SER	L	190	52.833	127.655	128.321	1.00139.52	L
ATOM	21245	OG	SER	L	190	51.420	127.688	128.439	1.00141.84	L
ATOM	21246	C	SER	L	190	52.992	126.409	130.480	1.00136.66	L
ATOM	21247	O	SER	L	190	52.791	125.329	129.924	1.00136.41	L
ATOM	21248	N	GLN	L	191	52.779	126.610	131.776	1.00134.68	L
ATOM	21249	CA	GLN	L	191	52.286	125.557	132.654	1.00131.84	L
ATOM	21250	CB	GLN	L	191	53.339	125.222	133.707	1.00131.70	L
ATOM	21251	CG	GLN	L	191	53.864	126.442	134.445	1.00132.51	L
ATOM	21252	CD	GLN	L	191	54.596	126.088	135.725	1.00132.09	L
ATOM	21253	OE1	GLN	L	191	53.990	125.624	136.694	1.00130.86	L
ATOM	21254	NE2	GLN	L	191	55.908	126.304	135.735	1.00132.56	L
ATOM	21255	C	GLN	L	191	51.010	126.021	133.345	1.00130.08	L
ATOM	21256	O	GLN	L	191	50.964	127.119	133.901	1.00129.96	L
ATOM	21257	N	ASN	L	192	49.978	125.183	133.314	1.00127.83	L
ATOM	21258	CA	ASN	L	192	48.702	125.520	133.937	1.00124.21	L
ATOM	21259	CB	ASN	L	192	47.702	124.385	133.728	1.00122.43	L
ATOM	21260	CG	ASN	L	192	47.077	124.417	132.351	1.00121.72	L
ATOM	21261	OD1	ASN	L	192	47.765	124.618	131.348	1.00120.25	L
ATOM	21262	ND2	ASN	L	192	45.767	124.216	132.292	1.00122.48	L
ATOM	21263	C	ASN	L	192	48.826	125.845	135.419	1.00121.21	L
ATOM	21264	O	ASN	L	192	49.344	125.051	136.206	1.00119.96	L
ATOM	21265	N	LEU	L	193	48.339	127.028	135.782	1.00118.22	L
ATOM	21266	CA	LEU	L	193	48.384	127.512	137.153	1.00115.38	L
ATOM	21267	CB	LEU	L	193	49.020	128.904	137.195	1.00113.68	L
ATOM	21268	CG	LEU	L	193	50.505	129.003	137.550	1.00111.81	L
ATOM	21269	CD1	LEU	L	193	50.982	130.440	137.403	1.00110.48	L
ATOM	21270	CD2	LEU	L	193	50.713	128.512	138.977	1.00111.31	L
ATOM	21271	C	LEU	L	193	47.012	127.580	137.807	1.00114.46	L
ATOM	21272	O	LEU	L	193	45.981	127.470	137.143	1.00114.83	L
ATOM	21273	N	GLY	L	194	47.025	127.768	139.123	1.00112.79	L
ATOM	21274	CA	GLY	L	194	45.803	127.875	139.896	1.00110.29	L
ATOM	21275	C	GLY	L	194	46.128	128.628	141.171	1.00109.86	L
ATOM	21276	O	GLY	L	194	47.302	128.760	141.523	1.00109.34	L
ATOM	21277	N	TYR	L	195	45.109	129.130	141.865	1.00109.62	L
ATOM	21278	CA	TYR	L	195	45.341	129.867	143.107	1.00107.96	L
ATOM	21279	CB	TYR	L	195	46.006	131.214	142.809	1.00108.64	L
ATOM	21280	CG	TYR	L	195	45.057	132.235	142.221	1.00108.16	L
ATOM	21281	CD1	TYR	L	195	44.650	132.154	140.888	1.00108.18	L
ATOM	21282	CE1	TYR	L	195	43.739	133.063	140.358	1.00107.23	L
ATOM	21283	CD2	TYR	L	195	44.529	133.256	143.012	1.00107.42	L
ATOM	21284	CE2	TYR	L	195	43.617	134.167	142.494	1.00107.93	L
ATOM	21285	CZ	TYR	L	195	43.225	134.065	141.165	1.00108.57	L
ATOM	21286	OH	TYR	L	195	42.318	134.965	140.646	1.00110.22	L
ATOM	21287	C	TYR	L	195	44.067	130.128	143.907	1.00106.67	L
ATOM	21288	O	TYR	L	195	42.976	130.220	143.346	1.00104.85	L
ATOM	21289	N	TYR	L	196	44.222	130.254	145.221	1.00107.65	L
ATOM	21290	CA	TYR	L	196	43.103	130.536	146.106	1.00109.86	L
ATOM	21291	CB	TYR	L	196	42.627	129.262	146.817	1.00111.05	L
ATOM	21292	CG	TYR	L	196	43.534	128.707	147.900	1.00112.86	L
ATOM	21293	CD1	TYR	L	196	43.717	129.387	149.103	1.00113.71	L
ATOM	21294	CE1	TYR	L	196	44.488	128.844	150.125	1.00115.04	L
ATOM	21295	CD2	TYR	L	196	44.157	127.464	147.747	1.00112.55	L

ATOM	21296	CE2	TYR	L	196	44.935	126.913	148.769	1.00112.46	L
ATOM	21297	CZ	TYR	L	196	45.093	127.610	149.957	1.00115.01	L
ATOM	21298	OH	TYR	L	196	45.846	127.082	150.985	1.00116.86	L
ATOM	21299	C	TYR	L	196	43.563	131.583	147.103	1.00112.75	L
ATOM	21300	O	TYR	L	196	44.728	131.604	147.495	1.00111.94	L
ATOM	21301	N	LEU	L	197	42.650	132.453	147.513	1.00117.54	L
ATOM	21302	CA	LEU	L	197	42.993	133.524	148.437	1.00123.20	L
ATOM	21303	CB	LEU	L	197	42.080	134.727	148.187	1.00123.22	L
ATOM	21304	CG	LEU	L	197	41.806	135.038	146.712	1.00124.03	L
ATOM	21305	CD1	LEU	L	197	40.915	136.265	146.609	1.00122.76	L
ATOM	21306	CD2	LEU	L	197	43.118	135.255	145.969	1.00122.97	L
ATOM	21307	C	LEU	L	197	42.924	133.128	149.906	1.00126.68	L
ATOM	21308	O	LEU	L	197	41.949	133.437	150.591	1.00127.60	L
ATOM	21309	N	SER	L	198	43.965	132.456	150.390	1.00130.08	L
ATOM	21310	CA	SER	L	198	44.016	132.040	151.788	1.00133.95	L
ATOM	21311	CB	SER	L	198	45.185	131.082	152.021	1.00134.98	L
ATOM	21312	OG	SER	L	198	46.377	131.558	151.422	1.00136.69	L
ATOM	21313	C	SER	L	198	44.148	133.239	152.721	1.00136.32	L
ATOM	21314	O	SER	L	198	45.105	134.010	152.628	1.00136.14	L
ATOM	21315	N	GLY	L	199	43.181	133.385	153.621	1.00139.23	L
ATOM	21316	CA	GLY	L	199	43.200	134.491	154.561	1.00142.31	L
ATOM	21317	C	GLY	L	199	42.195	134.285	155.679	1.00144.42	L
ATOM	21318	O	GLY	L	199	41.731	133.166	155.899	1.00145.14	L
ATOM	21319	N	THR	L	200	41.856	135.362	156.384	1.00145.76	L
ATOM	21320	CA	THR	L	200	40.900	135.288	157.485	1.00146.63	L
ATOM	21321	CB	THR	L	200	41.597	135.515	158.842	1.00145.84	L
ATOM	21322	OG1	THR	L	200	42.546	134.464	159.070	1.00145.22	L
ATOM	21323	CG2	THR	L	200	40.575	135.531	159.973	1.00143.55	L
ATOM	21324	C	THR	L	200	39.773	136.304	157.332	1.00147.64	L
ATOM	21325	O	THR	L	200	40.018	137.493	157.122	1.00147.12	L
ATOM	21326	N	THR	L	201	38.539	135.820	157.450	1.00149.19	L
ATOM	21327	CA	THR	L	201	37.353	136.660	157.317	1.00150.19	L
ATOM	21328	CB	THR	L	201	36.301	135.990	156.409	1.00149.89	L
ATOM	21329	OG1	THR	L	201	35.259	136.926	156.106	1.00148.91	L
ATOM	21330	CG2	THR	L	201	35.692	134.785	157.114	1.00149.97	L
ATOM	21331	C	THR	L	201	36.702	136.933	158.671	1.00150.83	L
ATOM	21332	O	THR	L	201	37.083	136.351	159.689	1.00150.50	L
ATOM	21333	N	ALA	L	202	35.709	137.819	158.666	1.00151.57	L
ATOM	21334	CA	ALA	L	202	34.990	138.184	159.879	1.00151.58	L
ATOM	21335	CB	ALA	L	202	35.125	139.682	160.135	1.00151.10	L
ATOM	21336	C	ALA	L	202	33.517	137.804	159.775	1.00151.64	L
ATOM	21337	O	ALA	L	202	32.639	138.630	160.024	1.00152.12	L
ATOM	21338	N	ASP	L	203	33.249	136.554	159.407	1.00150.93	L
ATOM	21339	CA	ASP	L	203	31.877	136.076	159.273	1.00150.43	L
ATOM	21340	CB	ASP	L	203	31.124	136.903	158.221	1.00150.95	L
ATOM	21341	CG	ASP	L	203	31.799	136.881	156.858	1.00150.84	L
ATOM	21342	OD1	ASP	L	203	31.194	137.377	155.883	1.00150.44	L
ATOM	21343	OD2	ASP	L	203	32.935	136.373	156.762	1.00150.58	L
ATOM	21344	C	ASP	L	203	31.815	134.603	158.892	1.00150.02	L
ATOM	21345	O	ASP	L	203	32.812	133.885	158.975	1.00149.69	L
ATOM	21346	N	ALA	L	204	30.630	134.162	158.481	1.00149.99	L
ATOM	21347	CA	ALA	L	204	30.413	132.783	158.065	1.00149.70	L
ATOM	21348	CB	ALA	L	204	29.099	132.262	158.636	1.00149.26	L
ATOM	21349	C	ALA	L	204	30.390	132.723	156.540	1.00149.45	L
ATOM	21350	O	ALA	L	204	30.271	131.649	155.952	1.00150.17	L
ATOM	21351	N	GLY	L	205	30.498	133.887	155.907	1.00148.84	L
ATOM	21352	CA	GLY	L	205	30.509	133.945	154.457	1.00148.97	L
ATOM	21353	C	GLY	L	205	31.927	133.803	153.934	1.00149.89	L

ATOM	21354	O	GLY	L	205	32.164	133.853	152.728	1.00149.36	L
ATOM	21355	N	ASN	L	206	32.867	133.623	154.862	1.00151.16	L
ATOM	21356	CA	ASN	L	206	34.293	133.468	154.565	1.00151.66	L
ATOM	21357	CB	ASN	L	206	34.686	131.988	154.652	1.00149.32	L
ATOM	21358	CG	ASN	L	206	34.877	131.520	156.089	1.00146.99	L
ATOM	21359	OD1	ASN	L	206	35.811	131.941	156.771	1.00143.76	L
ATOM	21360	ND2	ASN	L	206	33.988	130.650	156.554	1.00146.57	L
ATOM	21361	C	ASN	L	206	34.769	134.068	153.241	1.00153.14	L
ATOM	21362	O	ASN	L	206	35.391	133.393	152.420	1.00152.41	L
ATOM	21363	N	SER	L	207	34.475	135.351	153.054	1.00155.81	L
ATOM	21364	CA	SER	L	207	34.871	136.082	151.856	1.00158.27	L
ATOM	21365	CB	SER	L	207	33.805	135.951	150.765	1.00157.99	L
ATOM	21366	OG	SER	L	207	32.603	136.592	151.149	1.00158.55	L
ATOM	21367	C	SER	L	207	35.048	137.553	152.223	1.00160.26	L
ATOM	21368	O	SER	L	207	35.261	138.399	151.358	1.00160.55	L
ATOM	21369	N	ILE	L	208	34.954	137.844	153.518	1.00162.52	L
ATOM	21370	CA	ILE	L	208	35.105	139.204	154.027	1.00164.56	L
ATOM	21371	CB	ILE	L	208	33.819	139.673	154.751	1.00164.61	L
ATOM	21372	CG2	ILE	L	208	34.005	141.087	155.288	1.00164.50	L
ATOM	21373	CG1	ILE	L	208	32.632	139.622	153.787	1.00163.90	L
ATOM	21374	CD1	ILE	L	208	31.308	140.006	154.416	1.00163.11	L
ATOM	21375	C	ILE	L	208	36.277	139.252	155.007	1.00166.14	L
ATOM	21376	O	ILE	L	208	36.083	139.296	156.223	1.00165.96	L
ATOM	21377	N	PHE	L	209	37.493	139.241	154.466	1.00168.24	L
ATOM	21378	CA	PHE	L	209	38.709	139.268	155.275	1.00170.01	L
ATOM	21379	CB	PHE	L	209	39.935	139.496	154.378	1.00168.70	L
ATOM	21380	CG	PHE	L	209	39.987	138.588	153.168	1.00167.09	L
ATOM	21381	CD1	PHE	L	209	39.255	138.889	152.020	1.00166.39	L
ATOM	21382	CD2	PHE	L	209	40.758	137.427	153.182	1.00166.16	L
ATOM	21383	CE1	PHE	L	209	39.291	138.050	150.904	1.00165.43	L
ATOM	21384	CE2	PHE	L	209	40.800	136.580	152.070	1.00165.13	L
ATOM	21385	CZ	PHE	L	209	40.065	136.894	150.930	1.00165.18	L
ATOM	21386	C	PHE	L	209	38.629	140.345	156.359	1.00172.21	L
ATOM	21387	O	PHE	L	209	37.965	141.364	156.183	1.00172.71	L
ATOM	21388	N	THR	L	210	39.305	140.111	157.480	1.00174.61	L
ATOM	21389	CA	THR	L	210	39.288	141.046	158.602	1.00177.34	L
ATOM	21390	CB	THR	L	210	39.531	140.310	159.935	1.00176.49	L
ATOM	21391	OG1	THR	L	210	40.711	139.505	159.832	1.00175.52	L
ATOM	21392	CG2	THR	L	210	38.350	139.429	160.279	1.00177.21	L
ATOM	21393	C	THR	L	210	40.291	142.193	158.510	1.00180.05	L
ATOM	21394	O	THR	L	210	40.852	142.467	157.449	1.00180.46	L
ATOM	21395	N	ASN	L	211	40.497	142.860	159.644	1.00182.81	L
ATOM	21396	CA	ASN	L	211	41.423	143.985	159.763	1.00185.21	L
ATOM	21397	CB	ASN	L	211	40.649	145.267	160.103	1.00185.96	L
ATOM	21398	CG	ASN	L	211	41.557	146.477	160.294	1.00186.56	L
ATOM	21399	OD1	ASN	L	211	41.105	147.540	160.717	1.00186.51	L
ATOM	21400	ND2	ASN	L	211	42.838	146.320	159.978	1.00186.69	L
ATOM	21401	C	ASN	L	211	42.431	143.680	160.873	1.00186.55	L
ATOM	21402	O	ASN	L	211	42.049	143.468	162.025	1.00186.09	L
ATOM	21403	N	THR	L	212	43.715	143.663	160.522	1.00188.33	L
ATOM	21404	CA	THR	L	212	44.776	143.374	161.485	1.00189.70	L
ATOM	21405	CB	THR	L	212	45.934	142.595	160.820	1.00189.19	L
ATOM	21406	OG1	THR	L	212	45.408	141.487	160.080	1.00187.93	L
ATOM	21407	CG2	THR	L	212	46.896	142.072	161.877	1.00188.74	L
ATOM	21408	C	THR	L	212	45.348	144.653	162.096	1.00191.08	L
ATOM	21409	O	THR	L	212	46.414	145.121	161.689	1.00191.41	L
ATOM	21410	N	ALA	L	213	44.642	145.214	163.075	1.00192.08	L
ATOM	21411	CA	ALA	L	213	45.094	146.439	163.725	1.00193.02	L

ATOM	21412	CB	ALA	L	213	44.854	147.633	162.802	1.00192.76	L
ATOM	21413	C	ALA	L	213	44.412	146.675	165.070	1.00193.76	L
ATOM	21414	O	ALA	L	213	43.337	146.138	165.340	1.00193.80	L
ATOM	21415	N	SER	L	214	45.055	147.483	165.910	1.00194.61	L
ATOM	21416	CA	SER	L	214	44.533	147.827	167.230	1.00194.92	L
ATOM	21417	CB	SER	L	214	45.594	147.560	168.302	1.00194.45	L
ATOM	21418	OG	SER	L	214	45.124	147.922	169.589	1.00193.78	L
ATOM	21419	C	SER	L	214	44.145	149.306	167.233	1.00195.31	L
ATOM	21420	O	SER	L	214	43.691	149.845	168.244	1.00195.06	L
ATOM	21421	N	PHE	L	215	44.333	149.944	166.081	1.00195.84	L
ATOM	21422	CA	PHE	L	215	44.021	151.357	165.878	1.00196.27	L
ATOM	21423	CB	PHE	L	215	44.866	151.903	164.715	1.00197.28	L
ATOM	21424	CG	PHE	L	215	44.485	153.293	164.251	1.00198.99	L
ATOM	21425	CD1	PHE	L	215	45.010	153.794	163.064	1.00199.46	L
ATOM	21426	CD2	PHE	L	215	43.599	154.092	164.972	1.00199.87	L
ATOM	21427	CE1	PHE	L	215	44.664	155.060	162.598	1.00200.00	L
ATOM	21428	CE2	PHE	L	215	43.245	155.363	164.513	1.00200.00	L
ATOM	21429	CZ	PHE	L	215	43.777	155.844	163.323	1.00200.00	L
ATOM	21430	C	PHE	L	215	42.536	151.528	165.569	1.00196.19	L
ATOM	21431	O	PHE	L	215	42.067	151.119	164.508	1.00196.15	L
ATOM	21432	N	SER	L	216	41.812	152.148	166.499	1.00196.06	L
ATOM	21433	CA	SER	L	216	40.381	152.397	166.346	1.00195.86	L
ATOM	21434	CB	SER	L	216	40.156	153.712	165.588	1.00196.04	L
ATOM	21435	OG	SER	L	216	38.778	154.041	165.515	1.00195.50	L
ATOM	21436	C	SER	L	216	39.700	151.247	165.608	1.00195.56	L
ATOM	21437	O	SER	L	216	39.365	151.366	164.429	1.00195.88	L
ATOM	21438	N	PRO	L	217	39.487	150.116	166.302	1.00194.85	L
ATOM	21439	CD	PRO	L	217	39.696	149.957	167.751	1.00194.65	L
ATOM	21440	CA	PRO	L	217	38.849	148.918	165.746	1.00194.09	L
ATOM	21441	CB	PRO	L	217	38.845	147.957	166.929	1.00194.20	L
ATOM	21442	CG	PRO	L	217	38.689	148.887	168.091	1.00194.65	L
ATOM	21443	C	PRO	L	217	37.443	149.177	165.212	1.00193.38	L
ATOM	21444	O	PRO	L	217	36.451	148.877	165.879	1.00193.35	L
ATOM	21445	N	ALA	L	218	37.365	149.730	164.007	1.00192.46	L
ATOM	21446	CA	ALA	L	218	36.081	150.026	163.387	1.00191.38	L
ATOM	21447	CB	ALA	L	218	36.297	150.732	162.054	1.00191.58	L
ATOM	21448	C	ALA	L	218	35.277	148.746	163.183	1.00190.29	L
ATOM	21449	O	ALA	L	218	35.838	147.678	162.933	1.00190.19	L
ATOM	21450	N	GLN	L	219	33.959	148.864	163.296	1.00188.90	L
ATOM	21451	CA	GLN	L	219	33.058	147.729	163.129	1.00187.10	L
ATOM	21452	CB	GLN	L	219	31.761	147.989	163.897	1.00185.63	L
ATOM	21453	CG	GLN	L	219	31.952	148.161	165.393	1.00182.43	L
ATOM	21454	CD	GLN	L	219	30.773	148.845	166.051	1.00180.66	L
ATOM	21455	OE1	GLN	L	219	30.607	150.060	165.946	1.00178.51	L
ATOM	21456	NE2	GLN	L	219	29.939	148.066	166.726	1.00179.73	L
ATOM	21457	C	GLN	L	219	32.741	147.491	161.652	1.00186.44	L
ATOM	21458	O	GLN	L	219	32.366	148.418	160.936	1.00187.05	L
ATOM	21459	N	GLY	L	220	32.899	146.251	161.200	1.00184.73	L
ATOM	21460	CA	GLY	L	220	32.612	145.924	159.814	1.00182.11	L
ATOM	21461	C	GLY	L	220	33.520	146.563	158.778	1.00180.24	L
ATOM	21462	O	GLY	L	220	33.050	147.276	157.892	1.00180.15	L
ATOM	21463	N	VAL	L	221	34.820	146.305	158.883	1.00178.18	L
ATOM	21464	CA	VAL	L	221	35.790	146.853	157.940	1.00175.92	L
ATOM	21465	CB	VAL	L	221	36.637	147.971	158.580	1.00175.33	L
ATOM	21466	CG1	VAL	L	221	37.636	148.509	157.567	1.00174.64	L
ATOM	21467	CG2	VAL	L	221	35.736	149.085	159.077	1.00174.98	L
ATOM	21468	C	VAL	L	221	36.728	145.756	157.456	1.00174.66	L
ATOM	21469	O	VAL	L	221	37.717	145.435	158.115	1.00174.06	L

ATOM	21470	N	GLY	L	222	36.410	145.184	156.300	1.00173.72	L
ATOM	21471	CA	GLY	L	222	37.236	144.127	155.749	1.00172.80	L
ATOM	21472	C	GLY	L	222	37.560	144.334	154.281	1.00171.98	L
ATOM	21473	O	GLY	L	222	37.540	145.461	153.784	1.00172.51	L
ATOM	21474	N	VAL	L	223	37.862	143.241	153.587	1.00170.19	L
ATOM	21475	CA	VAL	L	223	38.193	143.292	152.166	1.00167.90	L
ATOM	21476	CB	VAL	L	223	39.725	143.265	151.946	1.00168.14	L
ATOM	21477	CG1	VAL	L	223	40.045	143.358	150.461	1.00167.77	L
ATOM	21478	CG2	VAL	L	223	40.378	144.411	152.700	1.00167.56	L
ATOM	21479	C	VAL	L	223	37.573	142.104	151.439	1.00166.02	L
ATOM	21480	O	VAL	L	223	37.172	141.121	152.063	1.00166.00	L
ATOM	21481	N	GLN	L	224	37.494	142.201	150.117	1.00163.65	L
ATOM	21482	CA	GLN	L	224	36.930	141.134	149.304	1.00161.18	L
ATOM	21483	CB	GLN	L	224	35.414	141.070	149.497	1.00161.12	L
ATOM	21484	CG	GLN	L	224	34.781	139.797	148.971	1.00159.54	L
ATOM	21485	CD	GLN	L	224	33.305	139.710	149.286	1.00157.78	L
ATOM	21486	OE1	GLN	L	224	32.892	139.896	150.430	1.00156.96	L
ATOM	21487	NE2	GLN	L	224	32.501	139.419	148.274	1.00156.40	L
ATOM	21488	C	GLN	L	224	37.264	141.397	147.841	1.00159.33	L
ATOM	21489	O	GLN	L	224	36.528	142.088	147.131	1.00159.50	L
ATOM	21490	N	LEU	L	225	38.387	140.839	147.405	1.00156.49	L
ATOM	21491	CA	LEU	L	225	38.870	141.000	146.037	1.00153.60	L
ATOM	21492	CB	LEU	L	225	40.122	140.141	145.833	1.00155.05	L
ATOM	21493	CG	LEU	L	225	41.104	140.081	147.012	1.00155.93	L
ATOM	21494	CD1	LEU	L	225	42.333	139.286	146.603	1.00155.05	L
ATOM	21495	CD2	LEU	L	225	41.501	141.486	147.447	1.00156.77	L
ATOM	21496	C	LEU	L	225	37.808	140.622	145.007	1.00150.60	L
ATOM	21497	O	LEU	L	225	36.764	140.069	145.353	1.00151.15	L
ATOM	21498	N	THR	L	226	38.078	140.922	143.740	1.00146.65	L
ATOM	21499	CA	THR	L	226	37.136	140.612	142.672	1.00143.10	L
ATOM	21500	CB	THR	L	226	35.878	141.494	142.771	1.00141.93	L
ATOM	21501	CG1	THR	L	226	35.093	141.338	141.583	1.00139.34	L
ATOM	21502	CG2	THR	L	226	36.258	142.955	142.936	1.00140.82	L
ATOM	21503	C	THR	L	226	37.720	140.773	141.274	1.00141.62	L
ATOM	21504	O	THR	L	226	38.091	141.874	140.865	1.00141.39	L
ATOM	21505	N	ARG	L	227	37.790	139.667	140.542	1.00140.25	L
ATOM	21506	CA	ARG	L	227	38.312	139.681	139.183	1.00139.91	L
ATOM	21507	CB	ARG	L	227	38.839	138.297	138.802	1.00140.71	L
ATOM	21508	CG	ARG	L	227	37.921	137.146	139.182	1.00140.34	L
ATOM	21509	CD	ARG	L	227	38.546	135.810	138.802	1.00140.33	L
ATOM	21510	NE	ARG	L	227	38.094	134.723	139.668	1.00140.00	L
ATOM	21511	CZ	ARG	L	227	36.848	134.265	139.719	1.00139.35	L
ATOM	21512	NH1	ARG	L	227	36.543	133.274	140.546	1.00139.45	L
ATOM	21513	NH2	ARG	L	227	35.912	134.788	138.941	1.00138.84	L
ATOM	21514	C	ARG	L	227	37.227	140.107	138.208	1.00140.14	L
ATOM	21515	O	ARG	L	227	36.473	139.277	137.699	1.00139.98	L
ATOM	21516	N	ASN	L	228	37.157	141.410	137.953	1.00140.69	L
ATOM	21517	CA	ASN	L	228	36.161	141.975	137.048	1.00140.78	L
ATOM	21518	CB	ASN	L	228	36.440	141.544	135.606	1.00139.62	L
ATOM	21519	CG	ASN	L	228	37.543	142.356	134.962	1.00138.82	L
ATOM	21520	OD1	ASN	L	228	37.831	142.196	133.777	1.00138.63	L
ATOM	21521	ND2	ASN	L	228	38.163	143.237	135.739	1.00138.46	L
ATOM	21522	C	ASN	L	228	34.732	141.599	137.427	1.00140.61	L
ATOM	21523	O	ASN	L	228	34.087	140.797	136.748	1.00140.40	L
ATOM	21524	N	GLY	L	229	34.245	142.189	138.514	1.00140.33	L
ATOM	21525	CA	GLY	L	229	32.894	141.916	138.966	1.00140.28	L
ATOM	21526	C	GLY	L	229	32.760	140.651	139.792	1.00139.85	L
ATOM	21527	O	GLY	L	229	32.203	140.675	140.891	1.00140.17	L

ATOM	21528	N	THR	L	230	33.265	139.541	139.264	1.00139.13	L
ATOM	21529	CA	THR	L	230	33.185	138.265	139.964	1.00138.18	L
ATOM	21530	CB	THR	L	230	33.575	137.087	139.037	1.00137.99	L
ATOM	21531	OG1	THR	L	230	32.843	137.173	137.808	1.00136.11	L
ATOM	21532	CG2	THR	L	230	33.255	135.756	139.709	1.00137.71	L
ATOM	21533	C	THR	L	230	34.115	138.263	141.172	1.00137.37	L
ATOM	21534	O	THR	L	230	35.328	138.122	141.024	1.00138.91	L
ATOM	21535	N	ILE	L	231	33.550	138.431	142.363	1.00135.64	L
ATOM	21536	CA	ILE	L	231	34.353	138.433	143.579	1.00134.51	L
ATOM	21537	CB	ILE	L	231	33.532	138.931	144.803	1.00134.55	L
ATOM	21538	CG2	ILE	L	231	34.237	138.558	146.098	1.00135.10	L
ATOM	21539	CG1	ILE	L	231	33.341	140.450	144.717	1.00134.23	L
ATOM	21540	CD1	ILE	L	231	32.630	141.067	145.909	1.00131.30	L
ATOM	21541	C	ILE	L	231	34.887	137.026	143.848	1.00134.05	L
ATOM	21542	O	ILE	L	231	34.302	136.030	143.415	1.00133.19	L
ATOM	21543	N	ILE	L	232	36.009	136.954	144.556	1.00133.84	L
ATOM	21544	CA	ILE	L	232	36.634	135.677	144.871	1.00132.51	L
ATOM	21545	CB	ILE	L	232	38.040	135.579	144.238	1.00133.53	L
ATOM	21546	CG2	ILE	L	232	38.621	134.188	144.470	1.00134.52	L
ATOM	21547	CG1	ILE	L	232	37.961	135.874	142.738	1.00133.66	L
ATOM	21548	CD1	ILE	L	232	39.313	135.964	142.070	1.00134.66	L
ATOM	21549	C	ILE	L	232	36.779	135.467	146.374	1.00129.80	L
ATOM	21550	O	ILE	L	232	37.564	136.150	147.034	1.00129.98	L
ATOM	21551	N	PRO	L	233	36.007	134.527	146.936	1.00127.04	L
ATOM	21552	CD	PRO	L	233	34.870	133.836	146.300	1.00126.07	L
ATOM	21553	CA	PRO	L	233	36.066	134.231	148.371	1.00124.52	L
ATOM	21554	CB	PRO	L	233	34.745	133.513	148.624	1.00125.61	L
ATOM	21555	CG	PRO	L	233	34.511	132.792	147.328	1.00126.64	L
ATOM	21556	C	PRO	L	233	37.285	133.360	148.688	1.00121.44	L
ATOM	21557	O	PRO	L	233	37.838	132.718	147.797	1.00120.88	L
ATOM	21558	N	ALA	L	234	37.702	133.343	149.951	1.00118.55	L
ATOM	21559	CA	ALA	L	234	38.863	132.555	150.369	1.00115.94	L
ATOM	21560	CB	ALA	L	234	39.072	132.698	151.871	1.00115.25	L
ATOM	21561	C	ALA	L	234	38.736	131.076	150.003	1.00114.34	L
ATOM	21562	O	ALA	L	234	37.661	130.611	149.636	1.00116.12	L
ATOM	21563	N	ASN	L	235	39.846	130.347	150.101	1.00111.47	L
ATOM	21564	CA	ASN	L	235	39.885	128.914	149.796	1.00108.03	L
ATOM	21565	CB	ASN	L	235	39.374	128.118	150.997	1.00103.64	L
ATOM	21566	CG	ASN	L	235	40.313	128.191	152.184	1.00100.44	L
ATOM	21567	OD1	ASN	L	235	41.274	127.429	152.280	1.00100.05	L
ATOM	21568	ND2	ASN	L	235	40.048	129.123	153.089	1.00 99.23	L
ATOM	21569	C	ASN	L	235	39.106	128.517	148.546	1.00108.38	L
ATOM	21570	O	ASN	L	235	38.705	127.365	148.392	1.00108.53	L
ATOM	21571	N	ASN	L	236	38.899	129.475	147.654	1.00110.54	L
ATOM	21572	CA	ASN	L	236	38.173	129.228	146.417	1.00113.14	L
ATOM	21573	CB	ASN	L	236	37.081	130.285	146.222	1.00115.93	L
ATOM	21574	CG	ASN	L	236	36.260	130.054	144.965	1.00117.89	L
ATOM	21575	OD1	ASN	L	236	35.456	129.121	144.895	1.00117.10	L
ATOM	21576	ND2	ASN	L	236	36.463	130.904	143.961	1.00118.52	L
ATOM	21577	C	ASN	L	236	39.149	129.279	145.250	1.00113.48	L
ATOM	21578	O	ASN	L	236	39.160	130.240	144.479	1.00113.36	L
ATOM	21579	N	THR	L	237	39.977	128.248	145.136	1.00113.70	L
ATOM	21580	CA	THR	L	237	40.955	128.172	144.061	1.00115.20	L
ATOM	21581	CB	THR	L	237	41.518	126.740	143.926	1.00114.88	L
ATOM	21582	OG1	THR	L	237	42.227	126.397	145.121	1.00115.41	L
ATOM	21583	CG2	THR	L	237	42.464	126.639	142.740	1.00114.17	L
ATOM	21584	C	THR	L	237	40.328	128.591	142.734	1.00116.86	L
ATOM	21585	O	THR	L	237	39.175	128.262	142.449	1.00116.94	L

ATOM	21586	N	VAL	L	238	41.086	129.330	141.931	1.00117.88	L
ATOM	21587	CA	VAL	L	238	40.592	129.782	140.641	1.00119.43	L
ATOM	21588	CB	VAL	L	238	40.461	131.313	140.599	1.00118.73	L
ATOM	21589	CG1	VAL	L	238	39.750	131.736	139.321	1.00119.18	L
ATOM	21590	CG2	VAL	L	238	39.700	131.803	141.821	1.00118.57	L
ATOM	21591	C	VAL	L	238	41.530	129.329	139.532	1.00121.15	L
ATOM	21592	O	VAL	L	238	42.740	129.211	139.739	1.00120.74	L
ATOM	21593	N	SER	L	239	40.960	129.078	138.356	1.00123.12	L
ATOM	21594	CA	SER	L	239	41.725	128.623	137.200	1.00124.75	L
ATOM	21595	CB	SER	L	239	40.794	127.962	136.176	1.00124.99	L
ATOM	21596	OG	SER	L	239	41.517	127.517	135.038	1.00123.63	L
ATOM	21597	C	SER	L	239	42.511	129.737	136.517	1.00125.58	L
ATOM	21598	O	SER	L	239	42.212	130.922	136.669	1.00126.12	L
ATOM	21599	N	LEU	L	240	43.523	129.333	135.761	1.00126.00	L
ATOM	21600	CA	LEU	L	240	44.373	130.259	135.034	1.00125.95	L
ATOM	21601	CB	LEU	L	240	45.633	130.558	135.850	1.00124.63	L
ATOM	21602	CG	LEU	L	240	45.367	131.182	137.223	1.00123.48	L
ATOM	21603	CD1	LEU	L	240	46.631	131.170	138.057	1.00122.79	L
ATOM	21604	CD2	LEU	L	240	44.848	132.598	137.043	1.00123.83	L
ATOM	21605	C	LEU	L	240	44.731	129.571	133.725	1.00126.65	L
ATOM	21606	O	LEU	L	240	44.750	130.196	132.667	1.00127.06	L
ATOM	21607	N	GLY	L	241	45.000	128.272	133.810	1.00127.15	L
ATOM	21608	CA	GLY	L	241	45.339	127.494	132.633	1.00127.52	L
ATOM	21609	C	GLY	L	241	46.536	127.988	131.845	1.00128.10	L
ATOM	21610	O	GLY	L	241	47.654	128.040	132.359	1.00127.28	L
ATOM	21611	N	ALA	L	242	46.295	128.345	130.587	1.00129.06	L
ATOM	21612	CA	ALA	L	242	47.345	128.831	129.700	1.00129.54	L
ATOM	21613	CB	ALA	L	242	46.746	129.212	128.351	1.00128.35	L
ATOM	21614	C	ALA	L	242	48.105	130.016	130.284	1.00130.25	L
ATOM	21615	O	ALA	L	242	47.665	131.163	130.168	1.00131.19	L
ATOM	21616	N	VAL	L	243	49.245	129.731	130.910	1.00130.19	L
ATOM	21617	CA	VAL	L	243	50.084	130.768	131.506	1.00130.05	L
ATOM	21618	CB	VAL	L	243	50.003	130.740	133.043	1.00127.90	L
ATOM	21619	CG1	VAL	L	243	50.795	131.900	133.625	1.00125.33	L
ATOM	21620	CG2	VAL	L	243	48.553	130.809	133.485	1.00126.86	L
ATOM	21621	C	VAL	L	243	51.544	130.581	131.086	1.00131.53	L
ATOM	21622	O	VAL	L	243	52.334	129.960	131.799	1.00131.35	L
ATOM	21623	N	GLY	L	244	51.890	131.127	129.922	1.00132.61	L
ATOM	21624	CA	GLY	L	244	53.245	131.006	129.414	1.00132.92	L
ATOM	21625	C	GLY	L	244	54.095	132.249	129.587	1.00132.91	L
ATOM	21626	O	GLY	L	244	54.330	132.692	130.710	1.00131.28	L
ATOM	21627	N	THR	L	245	54.555	132.811	128.470	1.00134.31	L
ATOM	21628	CA	THR	L	245	55.400	134.005	128.487	1.00135.48	L
ATOM	21629	CB	THR	L	245	56.339	134.042	127.258	1.00135.61	L
ATOM	21630	OG1	THR	L	245	55.558	134.054	126.055	1.00134.44	L
ATOM	21631	CG2	THR	L	245	57.259	132.830	127.253	1.00134.34	L
ATOM	21632	C	THR	L	245	54.607	135.311	128.524	1.00136.00	L
ATOM	21633	O	THR	L	245	55.130	136.348	128.938	1.00135.85	L
ATOM	21634	N	SER	L	246	53.352	135.258	128.084	1.00135.95	L
ATOM	21635	CA	SER	L	246	52.486	136.434	128.076	1.00134.86	L
ATOM	21636	CB	SER	L	246	51.302	136.203	127.137	1.00133.31	L
ATOM	21637	OG	SER	L	246	51.751	135.813	125.852	1.00131.16	L
ATOM	21638	C	SER	L	246	51.976	136.708	129.489	1.00135.29	L
ATOM	21639	O	SER	L	246	50.964	136.146	129.910	1.00135.05	L
ATOM	21640	N	ALA	L	247	52.687	137.569	130.214	1.00135.71	L
ATOM	21641	CA	ALA	L	247	52.331	137.921	131.587	1.00136.43	L
ATOM	21642	CB	ALA	L	247	53.115	139.152	132.026	1.00135.78	L
ATOM	21643	C	ALA	L	247	50.836	138.167	131.761	1.00137.24	L

ATOM	21644	O	ALA	L	247	50.357	139.283	131.556	1.00136.61	L
ATOM	21645	N	VAL	L	248	50.106	137.123	132.150	1.00138.44	L
ATOM	21646	CA	VAL	L	248	48.661	137.216	132.357	1.00138.58	L
ATOM	21647	CB	VAL	L	248	47.997	135.810	132.345	1.00137.73	L
ATOM	21648	CG1	VAL	L	248	46.484	135.948	132.443	1.00137.27	L
ATOM	21649	CG2	VAL	L	248	48.385	135.053	131.078	1.00134.70	L
ATOM	21650	C	VAL	L	248	48.348	137.898	133.692	1.00139.04	L
ATOM	21651	O	VAL	L	248	48.963	137.586	134.712	1.00137.79	L
ATOM	21652	N	SER	L	249	47.393	138.826	133.675	1.00140.53	L
ATOM	21653	CA	SER	L	249	47.003	139.554	134.882	1.00141.68	L
ATOM	21654	CB	SER	L	249	46.698	141.020	134.547	1.00140.56	L
ATOM	21655	OG	SER	L	249	46.513	141.792	135.723	1.00136.48	L
ATOM	21656	C	SER	L	249	45.784	138.901	135.530	1.00143.26	L
ATOM	21657	O	SER	L	249	45.049	138.154	134.879	1.00144.01	L
ATOM	21658	N	LEU	L	250	45.575	139.190	136.813	1.00143.70	L
ATOM	21659	CA	LEU	L	250	44.461	138.621	137.568	1.00143.42	L
ATOM	21660	CB	LEU	L	250	44.870	138.441	139.033	1.00141.87	L
ATOM	21661	CG	LEU	L	250	45.996	137.443	139.312	1.00140.67	L
ATOM	21662	CD1	LEU	L	250	46.417	137.535	140.765	1.00139.90	L
ATOM	21663	CD2	LEU	L	250	45.529	136.036	138.975	1.00140.09	L
ATOM	21664	C	LEU	L	250	43.178	139.446	137.501	1.00143.85	L
ATOM	21665	O	LEU	L	250	42.078	138.898	137.567	1.00143.62	L
ATOM	21666	N	GLY	L	251	43.321	140.761	137.371	1.00144.54	L
ATOM	21667	CA	GLY	L	251	42.153	141.620	137.313	1.00145.25	L
ATOM	21668	C	GLY	L	251	41.551	141.772	138.695	1.00145.66	L
ATOM	21669	O	GLY	L	251	40.345	141.984	138.848	1.00146.28	L
ATOM	21670	N	LEU	L	252	42.404	141.658	139.707	1.00145.48	L
ATOM	21671	CA	LEU	L	252	41.978	141.777	141.092	1.00146.11	L
ATOM	21672	CB	LEU	L	252	43.113	141.350	142.019	1.00145.26	L
ATOM	21673	CG	LEU	L	252	43.775	140.015	141.678	1.00144.11	L
ATOM	21674	CD1	LEU	L	252	44.850	139.720	142.702	1.00144.82	L
ATOM	21675	CD2	LEU	L	252	42.740	138.902	141.652	1.00143.73	L
ATOM	21676	C	LEU	L	252	41.562	143.207	141.417	1.00147.20	L
ATOM	21677	O	LEU	L	252	42.298	144.156	141.143	1.00146.92	L
ATOM	21678	N	THR	L	253	40.380	143.354	142.005	1.00148.74	L
ATOM	21679	CA	THR	L	253	39.867	144.669	142.370	1.00150.16	L
ATOM	21680	CB	THR	L	253	38.590	145.005	141.579	1.00148.71	L
ATOM	21681	OG1	THR	L	253	38.772	144.650	140.203	1.00147.35	L
ATOM	21682	CG2	THR	L	253	38.287	146.493	141.674	1.00147.82	L
ATOM	21683	C	THR	L	253	39.544	144.705	143.861	1.00152.15	L
ATOM	21684	O	THR	L	253	38.381	144.592	144.252	1.00152.47	L
ATOM	21685	N	ALA	L	254	40.577	144.856	144.687	1.00153.91	L
ATOM	21686	CA	ALA	L	254	40.409	144.905	146.138	1.00155.75	L
ATOM	21687	CB	ALA	L	254	41.746	145.205	146.809	1.00153.52	L
ATOM	21688	C	ALA	L	254	39.379	145.964	146.517	1.00158.12	L
ATOM	21689	O	ALA	L	254	39.662	147.161	146.463	1.00158.61	L
ATOM	21690	N	ASN	L	255	38.184	145.517	146.900	1.00160.34	L
ATOM	21691	CA	ASN	L	255	37.106	146.425	147.281	1.00162.25	L
ATOM	21692	CB	ASN	L	255	35.841	146.115	146.470	1.00160.87	L
ATOM	21693	CG	ASN	L	255	36.013	146.388	144.986	1.00159.44	L
ATOM	21694	OD1	ASN	L	255	35.091	146.185	144.197	1.00157.79	L
ATOM	21695	ND2	ASN	L	255	37.194	146.854	144.600	1.00159.89	L
ATOM	21696	C	ASN	L	255	36.784	146.357	148.772	1.00164.52	L
ATOM	21697	O	ASN	L	255	37.281	145.486	149.487	1.00163.83	L
ATOM	21698	N	TYR	L	256	35.946	147.287	149.227	1.00167.80	L
ATOM	21699	CA	TYR	L	256	35.539	147.360	150.629	1.00170.38	L
ATOM	21700	CB	TYR	L	256	34.926	148.735	150.931	1.00173.17	L
ATOM	21701	CG	TYR	L	256	35.940	149.802	151.297	1.00175.64	L

ATOM	21702	CD1	TYR	L	256	36.975	150.142	150.426	1.00176.49	L
ATOM	21703	CE1	TYR	L	256	37.922	151.107	150.773	1.00176.89	L
ATOM	21704	CD2	TYR	L	256	35.874	150.458	152.528	1.00176.27	L
ATOM	21705	CE2	TYR	L	256	36.816	151.424	152.884	1.00177.13	L
ATOM	21706	CZ	TYR	L	256	37.838	151.742	152.002	1.00177.22	L
ATOM	21707	OH	TYR	L	256	38.780	152.684	152.353	1.00177.47	L
ATOM	21708	C	TYR	L	256	34.548	146.263	151.008	1.00170.75	L
ATOM	21709	O	TYR	L	256	33.606	145.977	150.266	1.00170.57	L
ATOM	21710	N	ALA	L	257	34.766	145.661	152.175	1.00171.43	L
ATOM	21711	CA	ALA	L	257	33.907	144.588	152.667	1.00172.25	L
ATOM	21712	CB	ALA	L	257	34.732	143.322	152.881	1.00172.17	L
ATOM	21713	C	ALA	L	257	33.184	144.962	153.960	1.00172.59	L
ATOM	21714	O	ALA	L	257	33.734	144.829	155.055	1.00172.71	L
ATOM	21715	N	ARG	L	258	31.946	145.426	153.820	1.00172.78	L
ATOM	21716	CA	ARG	L	258	31.123	145.812	154.962	1.00172.94	L
ATOM	21717	CB	ARG	L	258	30.040	146.793	154.501	1.00172.77	L
ATOM	21718	CG	ARG	L	258	29.185	147.385	155.610	1.00172.14	L
ATOM	21719	CD	ARG	L	258	28.263	148.466	155.054	1.00171.64	L
ATOM	21720	NE	ARG	L	258	27.336	148.985	156.057	1.00171.24	L
ATOM	21721	CZ	ARG	L	258	26.464	149.965	155.836	1.00170.73	L
ATOM	21722	NH1	ARG	L	258	25.656	150.370	156.807	1.00169.46	L
ATOM	21723	NH2	ARG	L	258	26.402	150.545	154.645	1.00170.12	L
ATOM	21724	C	ARG	L	258	30.496	144.541	155.533	1.00173.50	L
ATOM	21725	O	ARG	L	258	29.998	143.702	154.783	1.00173.32	L
ATOM	21726	N	THR	L	259	30.524	144.398	156.855	1.00174.56	L
ATOM	21727	CA	THR	L	259	29.976	143.208	157.504	1.00175.73	L
ATOM	21728	CB	THR	L	259	30.924	142.706	158.614	1.00175.51	L
ATOM	21729	OG1	THR	L	259	31.030	143.698	159.641	1.00174.05	L
ATOM	21730	CG2	THR	L	259	32.307	142.425	158.044	1.00174.74	L
ATOM	21731	C	THR	L	259	28.579	143.387	158.104	1.00176.87	L
ATOM	21732	O	THR	L	259	27.591	143.500	157.378	1.00176.49	L
ATOM	21733	N	GLY	L	260	28.506	143.398	159.433	1.00178.40	L
ATOM	21734	CA	GLY	L	260	27.235	143.550	160.119	1.00179.79	L
ATOM	21735	C	GLY	L	260	26.434	144.759	159.678	1.00180.94	L
ATOM	21736	O	GLY	L	260	25.391	144.617	159.041	1.00181.38	L
ATOM	21737	N	GLY	L	261	26.916	145.951	160.019	1.00181.87	L
ATOM	21738	CA	GLY	L	261	26.218	147.167	159.640	1.00182.81	L
ATOM	21739	C	GLY	L	261	27.068	148.411	159.812	1.00183.60	L
ATOM	21740	O	GLY	L	261	27.260	149.180	158.870	1.00183.71	L
ATOM	21741	N	GLN	L	262	27.576	148.609	161.024	1.00184.25	L
ATOM	21742	CA	GLN	L	262	28.415	149.760	161.338	1.00185.35	L
ATOM	21743	CB	GLN	L	262	28.845	149.693	162.808	1.00185.58	L
ATOM	21744	CG	GLN	L	262	29.794	150.799	163.255	1.00186.47	L
ATOM	21745	CD	GLN	L	262	29.141	152.167	163.298	1.00186.74	L
ATOM	21746	OE1	GLN	L	262	29.781	153.158	163.647	1.00186.92	L
ATOM	21747	NE2	GLN	L	262	27.861	152.229	162.946	1.00187.16	L
ATOM	21748	C	GLN	L	262	29.651	149.813	160.439	1.00186.19	L
ATOM	21749	O	GLN	L	262	30.122	148.783	159.957	1.00186.51	L
ATOM	21750	N	VAL	L	263	30.160	151.022	160.210	1.00186.69	L
ATOM	21751	CA	VAL	L	263	31.353	151.235	159.388	1.00186.68	L
ATOM	21752	CB	VAL	L	263	30.983	151.612	157.930	1.00186.52	L
ATOM	21753	CG1	VAL	L	263	32.236	151.652	157.066	1.00186.12	L
ATOM	21754	CG2	VAL	L	263	29.985	150.614	157.367	1.00186.10	L
ATOM	21755	C	VAL	L	263	32.163	152.377	160.014	1.00186.62	L
ATOM	21756	O	VAL	L	263	32.453	153.384	159.364	1.00186.64	L
ATOM	21757	N	THR	L	264	32.519	152.199	161.285	1.00186.40	L
ATOM	21758	CA	THR	L	264	33.275	153.188	162.052	1.00185.86	L
ATOM	21759	CB	THR	L	264	33.603	152.644	163.466	1.00185.05	L

ATOM	21760	OG1	THR	L	264	32.446	151.994	164.009	1.00183.72	L
ATOM	21761	CG2	THR	L	264	34.002	153.778	164.401	1.00184.30	L
ATOM	21762	C	THR	L	264	34.578	153.612	161.369	1.00186.16	L
ATOM	21763	O	THR	L	264	34.865	153.208	160.241	1.00186.21	L
ATOM	21764	N	ALA	L	265	35.358	154.434	162.065	1.00186.17	L
ATOM	21765	CA	ALA	L	265	36.628	154.929	161.547	1.00186.22	L
ATOM	21766	CB	ALA	L	265	36.794	156.399	161.911	1.00185.87	L
ATOM	21767	C	ALA	L	265	37.803	154.121	162.091	1.00186.20	L
ATOM	21768	O	ALA	L	265	37.769	153.651	163.229	1.00185.77	L
ATOM	21769	N	GLY	L	266	38.838	153.966	161.269	1.00186.20	L
ATOM	21770	CA	GLY	L	266	40.013	153.219	161.684	1.00185.90	L
ATOM	21771	C	GLY	L	266	40.966	152.936	160.537	1.00185.77	L
ATOM	21772	O	GLY	L	266	41.301	153.834	159.763	1.00186.01	L
ATOM	21773	N	ASN	L	267	41.404	151.685	160.425	1.00185.57	L
ATOM	21774	CA	ASN	L	267	42.326	151.277	159.368	1.00184.98	L
ATOM	21775	CB	ASN	L	267	43.644	150.781	159.973	1.00184.46	L
ATOM	21776	CG	ASN	L	267	44.472	151.899	160.564	1.00183.93	L
ATOM	21777	OD1	ASN	L	267	45.493	151.659	161.207	1.00183.97	L
ATOM	21778	ND2	ASN	L	267	44.042	153.133	160.339	1.00183.42	L
ATOM	21779	C	ASN	L	267	41.758	150.180	158.474	1.00184.62	L
ATOM	21780	O	ASN	L	267	41.037	149.297	158.934	1.00184.85	L
ATOM	21781	N	VAL	L	268	42.091	150.247	157.189	1.00184.01	L
ATOM	21782	CA	VAL	L	268	41.657	149.248	156.214	1.00183.08	L
ATOM	21783	CB	VAL	L	268	41.093	149.916	154.928	1.00182.92	L
ATOM	21784	CG1	VAL	L	268	40.618	148.858	153.949	1.00182.79	L
ATOM	21785	CG2	VAL	L	268	39.950	150.849	155.285	1.00182.26	L
ATOM	21786	C	VAL	L	268	42.905	148.430	155.859	1.00182.31	L
ATOM	21787	O	VAL	L	268	43.371	148.447	154.718	1.00182.12	L
ATOM	21788	N	GLN	L	269	43.442	147.716	156.848	1.00181.44	L
ATOM	21789	CA	GLN	L	269	44.648	146.918	156.660	1.00180.39	L
ATOM	21790	CB	GLN	L	269	45.701	147.372	157.673	1.00179.48	L
ATOM	21791	CG	GLN	L	269	45.896	148.890	157.720	1.00177.49	L
ATOM	21792	CD	GLN	L	269	47.021	149.304	158.653	1.00175.95	L
ATOM	21793	OE1	GLN	L	269	48.179	148.951	158.435	1.00175.41	L
ATOM	21794	NE2	GLN	L	269	46.684	150.048	159.700	1.00174.22	L
ATOM	21795	C	GLN	L	269	44.401	145.412	156.797	1.00179.83	L
ATOM	21796	O	GLN	L	269	43.950	144.935	157.837	1.00180.12	L
ATOM	21797	N	SER	L	270	44.706	144.674	155.734	1.00178.98	L
ATOM	21798	CA	SER	L	270	44.532	143.225	155.714	1.00177.81	L
ATOM	21799	CB	SER	L	270	43.242	142.856	154.972	1.00177.13	L
ATOM	21800	OG	SER	L	270	43.090	141.451	154.862	1.00175.56	L
ATOM	21801	C	SER	L	270	45.722	142.533	155.053	1.00177.18	L
ATOM	21802	O	SER	L	270	46.522	143.171	154.365	1.00177.36	L
ATOM	21803	N	ILE	L	271	45.828	141.224	155.267	1.00175.98	L
ATOM	21804	CA	ILE	L	271	46.913	140.431	154.694	1.00173.74	L
ATOM	21805	CB	ILE	L	271	47.976	140.043	155.765	1.00173.60	L
ATOM	21806	CG2	ILE	L	271	49.102	139.257	155.111	1.00173.53	L
ATOM	21807	CG1	ILE	L	271	48.550	141.294	156.437	1.00172.90	L
ATOM	21808	CD1	ILE	L	271	47.651	141.923	157.488	1.00170.54	L
ATOM	21809	C	ILE	L	271	46.359	139.146	154.062	1.00171.22	L
ATOM	21810	O	ILE	L	271	46.352	138.081	154.690	1.00170.75	L
ATOM	21811	N	ILE	L	272	45.901	139.259	152.817	1.00168.02	L
ATOM	21812	CA	ILE	L	272	45.335	138.129	152.084	1.00164.41	L
ATOM	21813	CB	ILE	L	272	44.293	138.615	151.047	1.00163.69	L
ATOM	21814	CG2	ILE	L	272	43.602	137.417	150.397	1.00163.14	L
ATOM	21815	CG1	ILE	L	272	43.264	139.521	151.729	1.00162.53	L
ATOM	21816	CD1	ILE	L	272	42.285	140.167	150.772	1.00162.10	L
ATOM	21817	C	ILE	L	272	46.418	137.333	151.351	1.00161.76	L

ATOM	21818	O	ILE	L	272	46.803	137.676	150.231	1.00162.01	L
ATOM	21819	N	GLY	L	273	46.897	136.265	151.983	1.00157.79	L
ATOM	21820	CA	GLY	L	273	47.930	135.444	151.375	1.00152.77	L
ATOM	21821	C	GLY	L	273	47.470	134.742	150.113	1.00148.90	L
ATOM	21822	O	GLY	L	273	47.067	133.582	150.155	1.00149.63	L
ATOM	21823	N	VAL	L	274	47.531	135.443	148.986	1.00144.35	L
ATOM	21824	CA	VAL	L	274	47.112	134.868	147.716	1.00140.70	L
ATOM	21825	CB	VAL	L	274	47.144	135.921	146.598	1.00140.36	L
ATOM	21826	CG1	VAL	L	274	46.662	135.307	145.295	1.00140.85	L
ATOM	21827	CG2	VAL	L	274	46.277	137.105	146.982	1.00139.80	L
ATOM	21828	C	VAL	L	274	48.011	133.699	147.323	1.00138.34	L
ATOM	21829	O	VAL	L	274	49.013	133.877	146.630	1.00137.87	L
ATOM	21830	N	THR	L	275	47.639	132.503	147.771	1.00135.41	L
ATOM	21831	CA	THR	L	275	48.402	131.294	147.486	1.00131.45	L
ATOM	21832	CB	THR	L	275	48.072	130.179	148.502	1.00129.33	L
ATOM	21833	OG1	THR	L	275	48.394	130.622	149.825	1.00126.70	L
ATOM	21834	CG2	THR	L	275	48.867	128.925	148.193	1.00128.65	L
ATOM	21835	C	THR	L	275	48.146	130.758	146.081	1.00130.43	L
ATOM	21836	O	THR	L	275	47.032	130.840	145.564	1.00129.14	L
ATOM	21837	N	PHE	L	276	49.197	130.213	145.474	1.00130.31	L
ATOM	21838	CA	PHE	L	276	49.128	129.635	144.134	1.00129.73	L
ATOM	21839	CB	PHE	L	276	50.230	130.213	143.243	1.00127.52	L
ATOM	21840	CG	PHE	L	276	49.951	131.600	142.746	1.00126.84	L
ATOM	21841	CD1	PHE	L	276	49.611	132.621	143.629	1.00127.09	L
ATOM	21842	CD2	PHE	L	276	50.048	131.891	141.388	1.00126.37	L
ATOM	21843	CE1	PHE	L	276	49.371	133.913	143.165	1.00127.63	L
ATOM	21844	CE2	PHE	L	276	49.810	133.178	140.914	1.00126.64	L
ATOM	21845	CZ	PHE	L	276	49.471	134.192	141.803	1.00127.27	L
ATOM	21846	C	PHE	L	276	49.308	128.121	144.226	1.00130.22	L
ATOM	21847	O	PHE	L	276	50.106	127.630	145.029	1.00131.51	L
ATOM	21848	N	VAL	L	277	48.566	127.386	143.404	1.00128.80	L
ATOM	21849	CA	VAL	L	277	48.654	125.930	143.390	1.00126.73	L
ATOM	21850	CB	VAL	L	277	47.270	125.274	143.636	1.00127.39	L
ATOM	21851	CG1	VAL	L	277	47.368	123.763	143.472	1.00127.03	L
ATOM	21852	CG2	VAL	L	277	46.776	125.613	145.035	1.00125.79	L
ATOM	21853	C	VAL	L	277	49.194	125.470	142.043	1.00124.70	L
ATOM	21854	O	VAL	L	277	48.719	125.903	140.991	1.00123.40	L
ATOM	21855	N	TYR	L	278	50.191	124.593	142.079	1.00123.30	L
ATOM	21856	CA	TYR	L	278	50.787	124.091	140.852	1.00122.10	L
ATOM	21857	CB	TYR	L	278	52.310	124.117	140.955	1.00119.26	L
ATOM	21858	CG	TYR	L	278	52.880	125.513	140.895	1.00114.93	L
ATOM	21859	CD1	TYR	L	278	52.859	126.350	142.013	1.00112.63	L
ATOM	21860	CE1	TYR	L	278	53.353	127.654	141.945	1.00110.01	L
ATOM	21861	CD2	TYR	L	278	53.409	126.012	139.708	1.00111.15	L
ATOM	21862	CE2	TYR	L	278	53.903	127.307	139.628	1.00109.13	L
ATOM	21863	CZ	TYR	L	278	53.873	128.127	140.745	1.00108.95	L
ATOM	21864	OH	TYR	L	278	54.357	129.416	140.651	1.00103.78	L
ATOM	21865	C	TYR	L	278	50.319	122.697	140.481	1.00121.89	L
ATOM	21866	O	TYR	L	278	50.196	121.820	141.334	1.00122.90	L
ATOM	21867	N	GLN	L	279	50.065	122.509	139.191	1.00121.80	L
ATOM	21868	CA	GLN	L	279	49.600	121.235	138.660	1.00122.47	L
ATOM	21869	CB	GLN	L	279	48.703	121.482	137.448	1.00122.96	L
ATOM	21870	CG	GLN	L	279	48.037	120.240	136.888	1.00124.11	L
ATOM	21871	CD	GLN	L	279	47.371	120.501	135.550	1.00125.62	L
ATOM	21872	OE1	GLN	L	279	46.681	119.637	135.006	1.00125.62	L
ATOM	21873	NE2	GLN	L	279	47.586	121.696	135.007	1.00125.46	L
ATOM	21874	C	GLN	L	279	50.772	120.348	138.254	1.00122.66	L
ATOM	21875	O	GLN	L	279	50.915	119.259	138.846	1.00123.49	L

ATOM	21876	OXT	GLN	L	279	51.531	120.753	137.351	1.00122.63	L
ATOM	21877	C	GLY	M	1	136.129	9.408	89.689	1.00138.67	M
ATOM	21878	O	GLY	M	1	135.588	8.802	88.766	1.00138.58	M
ATOM	21879	N	GLY	M	1	138.229	10.137	90.832	1.00136.77	M
ATOM	21880	CA	GLY	M	1	137.527	9.974	89.527	1.00137.99	M
ATOM	21881	N	VAL	M	2	135.544	9.605	90.866	1.00139.92	M
ATOM	21882	CA	VAL	M	2	134.200	9.113	91.157	1.00141.38	M
ATOM	21883	CB	VAL	M	2	133.815	9.413	92.631	1.00141.36	M
ATOM	21884	CG1	VAL	M	2	132.511	8.716	92.986	1.00143.13	M
ATOM	21885	CG2	VAL	M	2	134.933	8.966	93.563	1.00139.58	M
ATOM	21886	C	VAL	M	2	133.162	9.749	90.219	1.00142.73	M
ATOM	21887	O	VAL	M	2	133.362	10.856	89.713	1.00143.18	M
ATOM	21888	N	ALA	M	3	132.061	9.036	89.984	1.00143.63	M
ATOM	21889	CA	ALA	M	3	130.988	9.519	89.113	1.00144.99	M
ATOM	21890	CB	ALA	M	3	131.388	9.368	87.653	1.00145.20	M
ATOM	21891	C	ALA	M	3	129.683	8.764	89.378	1.00145.58	M
ATOM	21892	O	ALA	M	3	129.663	7.533	89.415	1.00145.59	M
ATOM	21893	N	LEU	M	4	128.595	9.509	89.555	1.00145.88	M
ATOM	21894	CA	LEU	M	4	127.296	8.907	89.830	1.00145.31	M
ATOM	21895	CB	LEU	M	4	126.331	9.952	90.394	1.00144.79	M
ATOM	21896	CG	LEU	M	4	126.663	10.505	91.784	1.00144.85	M
ATOM	21897	CD1	LEU	M	4	125.597	11.508	92.193	1.00146.03	M
ATOM	21898	CD2	LEU	M	4	126.735	9.372	92.797	1.00143.22	M
ATOM	21899	C	LEU	M	4	126.675	8.250	88.611	1.00144.89	M
ATOM	21900	O	LEU	M	4	126.837	8.715	87.486	1.00143.25	M
ATOM	21901	N	GLY	M	5	125.957	7.160	88.853	1.00145.71	M
ATOM	21902	CA	GLY	M	5	125.315	6.443	87.772	1.00146.87	M
ATOM	21903	C	GLY	M	5	124.174	7.222	87.155	1.00147.84	M
ATOM	21904	O	GLY	M	5	123.724	6.892	86.059	1.00148.86	M
ATOM	21905	N	ALA	M	6	123.704	8.258	87.846	1.00147.87	M
ATOM	21906	CA	ALA	M	6	122.600	9.057	87.327	1.00148.05	M
ATOM	21907	CB	ALA	M	6	121.292	8.610	87.962	1.00148.57	M
ATOM	21908	C	ALA	M	6	122.765	10.561	87.499	1.00147.72	M
ATOM	21909	O	ALA	M	6	123.466	11.035	88.393	1.00146.72	M
ATOM	21910	N	THR	M	7	122.092	11.300	86.624	1.00147.71	M
ATOM	21911	CA	THR	M	7	122.122	12.754	86.631	1.00147.48	M
ATOM	21912	CB	THR	M	7	122.072	13.299	85.192	1.00146.65	M
ATOM	21913	OG1	THR	M	7	120.914	12.784	84.519	1.00145.23	M
ATOM	21914	CG2	THR	M	7	123.315	12.878	84.430	1.00146.56	M
ATOM	21915	C	THR	M	7	120.932	13.304	87.414	1.00148.31	M
ATOM	21916	O	THR	M	7	120.850	14.504	87.682	1.00148.56	M
ATOM	21917	N	ARG	M	8	120.007	12.416	87.771	1.00148.51	M
ATOM	21918	CA	ARG	M	8	118.818	12.798	88.525	1.00148.16	M
ATOM	21919	CB	ARG	M	8	117.816	13.518	87.626	1.00146.08	M
ATOM	21920	CG	ARG	M	8	117.182	12.623	86.578	1.00142.78	M
ATOM	21921	CD	ARG	M	8	117.728	12.886	85.181	1.00142.29	M
ATOM	21922	NE	ARG	M	8	117.246	14.148	84.617	1.00140.71	M
ATOM	21923	CZ	ARG	M	8	117.747	15.347	84.904	1.00140.94	M
ATOM	21924	NH1	ARG	M	8	117.230	16.429	84.337	1.00141.17	M
ATOM	21925	NH2	ARG	M	8	118.772	15.468	85.740	1.00139.99	M
ATOM	21926	C	ARG	M	8	118.153	11.554	89.100	1.00149.25	M
ATOM	21927	O	ARG	M	8	118.382	10.442	88.620	1.00149.14	M
ATOM	21928	N	VAL	M	9	117.324	11.748	90.122	1.00150.65	M
ATOM	21929	CA	VAL	M	9	116.618	10.644	90.769	1.00150.88	M
ATOM	21930	CB	VAL	M	9	117.250	10.299	92.145	1.00149.66	M
ATOM	21931	CG1	VAL	M	9	116.584	9.065	92.732	1.00147.37	M
ATOM	21932	CG2	VAL	M	9	118.747	10.078	91.990	1.00148.68	M
ATOM	21933	C	VAL	M	9	115.138	10.985	90.986	1.00152.42	M

ATOM	21934	O	VAL	M	9	114.795	12.097	91.397	1.00152.06	M
ATOM	21935	N	ILE	M	10	114.268	10.022	90.700	1.00154.35	M
ATOM	21936	CA	ILE	M	10	112.828	10.196	90.877	1.00155.84	M
ATOM	21937	CB	ILE	M	10	112.049	9.784	89.609	1.00153.17	M
ATOM	21938	CG2	ILE	M	10	110.558	9.952	89.839	1.00151.52	M
ATOM	21939	CG1	ILE	M	10	112.495	10.638	88.421	1.00152.30	M
ATOM	21940	CD1	ILE	M	10	112.214	12.121	88.584	1.00151.75	M
ATOM	21941	C	ILE	M	10	112.396	9.301	92.032	1.00158.90	M
ATOM	21942	O	ILE	M	10	112.482	8.077	91.938	1.00159.23	M
ATOM	21943	N	TYR	M	11	111.940	9.912	93.121	1.00161.81	M
ATOM	21944	CA	TYR	M	11	111.513	9.150	94.289	1.00164.28	M
ATOM	21945	CB	TYR	M	11	111.943	9.851	95.581	1.00165.34	M
ATOM	21946	CG	TYR	M	11	112.040	8.902	96.748	1.00166.87	M
ATOM	21947	CD1	TYR	M	11	113.217	8.194	96.991	1.00167.66	M
ATOM	21948	CE1	TYR	M	11	113.300	7.260	98.015	1.00168.11	M
ATOM	21949	CD2	TYR	M	11	110.940	8.656	97.567	1.00166.96	M
ATOM	21950	CE2	TYR	M	11	111.010	7.720	98.598	1.00167.91	M
ATOM	21951	CZ	TYR	M	11	112.197	7.025	98.814	1.00168.06	M
ATOM	21952	OH	TYR	M	11	112.285	6.088	99.819	1.00167.85	M
ATOM	21953	C	TYR	M	11	110.002	8.946	94.319	1.00165.36	M
ATOM	21954	O	TYR	M	11	109.264	9.797	94.816	1.00165.31	M
ATOM	21955	N	PRO	M	12	109.521	7.807	93.795	1.00166.40	M
ATOM	21956	CD	PRO	M	12	110.261	6.687	93.190	1.00166.91	M
ATOM	21957	CA	PRO	M	12	108.080	7.542	93.788	1.00167.00	M
ATOM	21958	CB	PRO	M	12	107.990	6.135	93.196	1.00166.92	M
ATOM	21959	CG	PRO	M	12	109.208	6.049	92.328	1.00166.70	M
ATOM	21960	C	PRO	M	12	107.521	7.608	95.206	1.00167.65	M
ATOM	21961	O	PRO	M	12	108.055	6.978	96.120	1.00168.30	M
ATOM	21962	N	ALA	M	13	106.458	8.384	95.390	1.00167.54	M
ATOM	21963	CA	ALA	M	13	105.838	8.515	96.701	1.00167.10	M
ATOM	21964	CB	ALA	M	13	104.703	9.527	96.648	1.00166.54	M
ATOM	21965	C	ALA	M	13	105.313	7.150	97.121	1.00167.00	M
ATOM	21966	O	ALA	M	13	104.460	6.570	96.448	1.00166.76	M
ATOM	21967	N	GLY	M	14	105.833	6.640	98.232	1.00167.21	M
ATOM	21968	CA	GLY	M	14	105.414	5.338	98.715	1.00167.87	M
ATOM	21969	C	GLY	M	14	106.575	4.362	98.739	1.00168.61	M
ATOM	21970	O	GLY	M	14	106.615	3.453	99.569	1.00168.51	M
ATOM	21971	N	GLN	M	15	107.521	4.549	97.823	1.00169.53	M
ATOM	21972	CA	GLN	M	15	108.696	3.686	97.734	1.00170.64	M
ATOM	21973	CB	GLN	M	15	109.624	4.166	96.616	1.00170.94	M
ATOM	21974	CG	GLN	M	15	109.062	3.989	95.220	1.00171.70	M
ATOM	21975	CD	GLN	M	15	109.066	2.545	94.765	1.00172.82	M
ATOM	21976	OE1	GLN	M	15	108.551	1.662	95.453	1.00172.70	M
ATOM	21977	NE2	GLN	M	15	109.646	2.295	93.596	1.00173.73	M
ATOM	21978	C	GLN	M	15	109.458	3.684	99.052	1.00171.34	M
ATOM	21979	O	GLN	M	15	109.733	4.739	99.625	1.00172.25	M
ATOM	21980	N	LYS	M	16	109.798	2.495	99.533	1.00170.88	M
ATOM	21981	CA	LYS	M	16	110.533	2.368	100.782	1.00170.06	M
ATOM	21982	CB	LYS	M	16	110.628	0.898	101.190	1.00169.33	M
ATOM	21983	CG	LYS	M	16	111.181	0.670	102.587	1.00167.81	M
ATOM	21984	CD	LYS	M	16	111.414	-0.814	102.854	1.00167.34	M
ATOM	21985	CE	LYS	M	16	110.167	-1.646	102.552	1.00167.46	M
ATOM	21986	NZ	LYS	M	16	108.971	-1.189	103.325	1.00166.99	M
ATOM	21987	C	LYS	M	16	111.934	2.939	100.595	1.00169.79	M
ATOM	21988	O	LYS	M	16	112.491	3.555	101.506	1.00169.94	M
ATOM	21989	N	GLN	M	17	112.491	2.739	99.403	1.00168.92	M
ATOM	21990	CA	GLN	M	17	113.831	3.219	99.099	1.00168.66	M
ATOM	21991	CB	GLN	M	17	114.862	2.405	99.886	1.00168.41	M

ATOM	21992	CG	GLN	M	17	114.768	0.904	99.647	1.00166.56	M
ATOM	21993	CD	GLN	M	17	116.042	0.164	100.021	1.00166.08	M
ATOM	21994	OE1	GLN	M	17	116.521	0.251	101.154	1.00165.38	M
ATOM	21995	NE2	GLN	M	17	116.595	-0.573	99.064	1.00165.49	M
ATOM	21996	C	GLN	M	17	114.187	3.155	97.614	1.00168.57	M
ATOM	21997	O	GLN	M	17	113.795	2.226	96.908	1.00168.54	M
ATOM	21998	N	VAL	M	18	114.937	4.155	97.157	1.00168.25	M
ATOM	21999	CA	VAL	M	18	115.407	4.236	95.774	1.00167.24	M
ATOM	22000	CB	VAL	M	18	114.982	5.564	95.107	1.00166.77	M
ATOM	22001	CG1	VAL	M	18	115.629	5.692	93.737	1.00166.34	M
ATOM	22002	CG2	VAL	M	18	113.471	5.611	94.975	1.00166.66	M
ATOM	22003	C	VAL	M	18	116.932	4.175	95.852	1.00167.01	M
ATOM	22004	O	VAL	M	18	117.529	4.808	96.720	1.00167.05	M
ATOM	22005	N	GLN	M	19	117.566	3.418	94.960	1.00166.63	M
ATOM	22006	CA	GLN	M	19	119.021	3.300	94.999	1.00165.99	M
ATOM	22007	CB	GLN	M	19	119.421	1.855	95.325	1.00167.32	M
ATOM	22008	CG	GLN	M	19	118.964	0.817	94.316	1.00169.57	M
ATOM	22009	CD	GLN	M	19	119.255	-0.604	94.774	1.00170.32	M
ATOM	22010	OE1	GLN	M	19	118.739	-1.053	95.799	1.00170.96	M
ATOM	22011	NE2	GLN	M	19	120.082	-1.318	94.015	1.00169.63	M
ATOM	22012	C	GLN	M	19	119.762	3.769	93.752	1.00164.77	M
ATOM	22013	O	GLN	M	19	119.368	3.477	92.622	1.00164.30	M
ATOM	22014	N	LEU	M	20	120.849	4.499	93.983	1.00163.79	M
ATOM	22015	CA	LEU	M	20	121.688	5.037	92.919	1.00163.16	M
ATOM	22016	CB	LEU	M	20	121.974	6.520	93.192	1.00163.56	M
ATOM	22017	CG	LEU	M	20	122.723	7.351	92.143	1.00163.59	M
ATOM	22018	CD1	LEU	M	20	121.953	7.344	90.838	1.00163.68	M
ATOM	22019	CD2	LEU	M	20	122.893	8.778	92.646	1.00163.91	M
ATOM	22020	C	LEU	M	20	122.996	4.243	92.869	1.00162.84	M
ATOM	22021	O	LEU	M	20	123.290	3.466	93.778	1.00161.84	M
ATOM	22022	N	ALA	M	21	123.780	4.445	91.812	1.00163.10	M
ATOM	22023	CA	ALA	M	21	125.043	3.729	91.645	1.00162.99	M
ATOM	22024	CB	ALA	M	21	125.029	2.966	90.326	1.00163.02	M
ATOM	22025	C	ALA	M	21	126.271	4.635	91.707	1.00162.80	M
ATOM	22026	O	ALA	M	21	126.315	5.682	91.059	1.00162.56	M
ATOM	22027	N	VAL	M	22	127.269	4.215	92.483	1.00162.64	M
ATOM	22028	CA	VAL	M	22	128.511	4.973	92.639	1.00162.42	M
ATOM	22029	CB	VAL	M	22	128.819	5.250	94.121	1.00161.48	M
ATOM	22030	CG1	VAL	M	22	129.712	6.474	94.239	1.00160.88	M
ATOM	22031	CG2	VAL	M	22	127.534	5.434	94.895	1.00160.35	M
ATOM	22032	C	VAL	M	22	129.681	4.179	92.064	1.00163.06	M
ATOM	22033	O	VAL	M	22	129.892	3.025	92.434	1.00163.51	M
ATOM	22034	N	THR	M	23	130.452	4.801	91.178	1.00163.19	M
ATOM	22035	CA	THR	M	23	131.588	4.127	90.559	1.00162.64	M
ATOM	22036	CB	THR	M	23	131.284	3.798	89.077	1.00161.50	M
ATOM	22037	OG1	THR	M	23	132.479	3.344	88.431	1.00161.79	M
ATOM	22038	CG2	THR	M	23	130.751	5.021	88.349	1.00160.11	M
ATOM	22039	C	THR	M	23	132.894	4.922	90.635	1.00163.04	M
ATOM	22040	O	THR	M	23	133.005	6.007	90.071	1.00163.61	M
ATOM	22041	N	ASN	M	24	133.881	4.371	91.336	1.00163.56	M
ATOM	22042	CA	ASN	M	24	135.180	5.022	91.479	1.00164.15	M
ATOM	22043	CB	ASN	M	24	135.803	4.668	92.835	1.00164.63	M
ATOM	22044	CG	ASN	M	24	137.213	5.212	92.992	1.00165.35	M
ATOM	22045	OD1	ASN	M	24	137.556	6.252	92.430	1.00166.39	M
ATOM	22046	ND2	ASN	M	24	138.032	4.517	93.774	1.00165.50	M
ATOM	22047	C	ASN	M	24	136.120	4.614	90.351	1.00164.35	M
ATOM	22048	O	ASN	M	24	136.566	3.469	90.285	1.00164.21	M
ATOM	22049	N	ASN	M	25	136.418	5.562	89.467	1.00165.13	M

ATOM	22050	CA	ASN	M	25	137.297	5.312	88.329	1.00166.53	M
ATOM	22051	CB	ASN	M	25	137.155	6.430	87.294	1.00164.09	M
ATOM	22052	CG	ASN	M	25	135.976	6.216	86.364	1.00162.00	M
ATOM	22053	OD1	ASN	M	25	134.836	6.061	86.805	1.00160.62	M
ATOM	22054	ND2	ASN	M	25	136.247	6.208	85.064	1.00159.91	M
ATOM	22055	C	ASN	M	25	138.764	5.147	88.691	1.00168.64	M
ATOM	22056	O	ASN	M	25	139.359	4.111	88.410	1.00169.18	M
ATOM	22057	N	ASP	M	26	139.347	6.173	89.299	1.00171.68	M
ATOM	22058	CA	ASP	M	26	140.751	6.130	89.683	1.00175.41	M
ATOM	22059	CB	ASP	M	26	141.035	7.193	90.742	1.00177.63	M
ATOM	22060	CG	ASP	M	26	140.849	8.604	90.210	1.00179.98	M
ATOM	22061	OD1	ASP	M	26	141.060	9.569	90.981	1.00181.05	M
ATOM	22062	OD2	ASP	M	26	140.492	8.744	89.018	1.00181.11	M
ATOM	22063	C	ASP	M	26	141.150	4.754	90.196	1.00177.35	M
ATOM	22064	O	ASP	M	26	140.901	4.403	91.348	1.00177.51	M
ATOM	22065	N	GLU	M	27	141.776	3.982	89.315	1.00179.11	M
ATOM	22066	CA	GLU	M	27	142.222	2.628	89.618	1.00180.63	M
ATOM	22067	CB	GLU	M	27	143.109	2.119	88.483	1.00181.06	M
ATOM	22068	CG	GLU	M	27	142.370	1.973	87.165	1.00183.33	M
ATOM	22069	CD	GLU	M	27	143.293	1.820	85.971	1.00184.81	M
ATOM	22070	OE1	GLU	M	27	144.200	0.959	86.017	1.00185.82	M
ATOM	22071	OE2	GLU	M	27	143.101	2.564	84.981	1.00185.09	M
ATOM	22072	C	GLU	M	27	142.971	2.505	90.936	1.00181.72	M
ATOM	22073	O	GLU	M	27	143.096	1.408	91.479	1.00182.53	M
ATOM	22074	N	ASN	M	28	143.468	3.620	91.457	1.00182.28	M
ATOM	22075	CA	ASN	M	28	144.204	3.577	92.708	1.00182.60	M
ATOM	22076	CB	ASN	M	28	145.676	3.244	92.415	1.00182.73	M
ATOM	22077	CG	ASN	M	28	146.228	3.994	91.193	1.00181.85	M
ATOM	22078	OD1	ASN	M	28	147.319	3.688	90.694	1.00180.75	M
ATOM	22079	ND2	ASN	M	28	145.478	4.984	90.717	1.00180.74	M
ATOM	22080	C	ASN	M	28	144.090	4.852	93.538	1.00182.79	M
ATOM	22081	O	ASN	M	28	144.713	5.867	93.228	1.00182.40	M
ATOM	22082	N	SER	M	29	143.290	4.773	94.600	1.00183.59	M
ATOM	22083	CA	SER	M	29	143.053	5.880	95.523	1.00184.62	M
ATOM	22084	CB	SER	M	29	142.993	7.216	94.774	1.00186.06	M
ATOM	22085	OG	SER	M	29	141.981	7.205	93.778	1.00188.05	M
ATOM	22086	C	SER	M	29	141.727	5.634	96.225	1.00184.31	M
ATOM	22087	O	SER	M	29	140.686	5.531	95.578	1.00184.66	M
ATOM	22088	N	THR	M	30	141.767	5.528	97.547	1.00183.64	M
ATOM	22089	CA	THR	M	30	140.556	5.289	98.322	1.00183.56	M
ATOM	22090	CB	THR	M	30	140.895	4.649	99.678	1.00182.82	M
ATOM	22091	OG1	THR	M	30	141.732	3.507	99.464	1.00182.71	M
ATOM	22092	CG2	THR	M	30	139.628	4.199	100.390	1.00182.22	M
ATOM	22093	C	THR	M	30	139.809	6.600	98.557	1.00184.35	M
ATOM	22094	O	THR	M	30	140.426	7.660	98.663	1.00185.24	M
ATOM	22095	N	TYR	M	31	138.482	6.521	98.636	1.00184.21	M
ATOM	22096	CA	TYR	M	31	137.641	7.700	98.852	1.00183.60	M
ATOM	22097	CB	TYR	M	31	136.993	8.133	97.534	1.00182.77	M
ATOM	22098	CG	TYR	M	31	137.942	8.786	96.563	1.00182.56	M
ATOM	22099	CD1	TYR	M	31	138.104	8.282	95.272	1.00182.62	M
ATOM	22100	CE1	TYR	M	31	138.973	8.891	94.370	1.00183.46	M
ATOM	22101	CD2	TYR	M	31	138.672	9.916	96.932	1.00182.62	M
ATOM	22102	CE2	TYR	M	31	139.540	10.534	96.042	1.00183.52	M
ATOM	22103	CZ	TYR	M	31	139.688	10.019	94.762	1.00183.96	M
ATOM	22104	OH	TYR	M	31	140.544	10.640	93.877	1.00183.91	M
ATOM	22105	C	TYR	M	31	136.537	7.467	99.884	1.00183.55	M
ATOM	22106	O	TYR	M	31	135.953	6.383	99.952	1.00184.01	M
ATOM	22107	N	LEU	M	32	136.258	8.492	100.684	1.00183.08	M

ATOM	22108	CA	LEU	M	32	135.208	8.419	101.695	1.00182.97	M
ATOM	22109	CB	LEU	M	32	135.616	9.173	102.964	1.00181.76	M
ATOM	22110	CG	LEU	M	32	136.458	8.426	103.996	1.00180.73	M
ATOM	22111	CD1	LEU	M	32	136.816	9.368	105.129	1.00179.88	M
ATOM	22112	CD2	LEU	M	32	135.681	7.229	104.524	1.00180.28	M
ATOM	22113	C	LEU	M	32	133.931	9.028	101.137	1.00183.55	M
ATOM	22114	O	LEU	M	32	133.759	10.248	101.146	1.00183.59	M
ATOM	22115	N	ILE	M	33	133.040	8.173	100.648	1.00184.31	M
ATOM	22116	CA	ILE	M	33	131.779	8.632	100.082	1.00184.77	M
ATOM	22117	CB	ILE	M	33	131.082	7.510	99.278	1.00184.27	M
ATOM	22118	CG2	ILE	M	33	129.824	8.051	98.611	1.00184.19	M
ATOM	22119	CG1	ILE	M	33	132.040	6.949	98.223	1.00184.51	M
ATOM	22120	CD1	ILE	M	33	132.509	7.968	97.203	1.00183.77	M
ATOM	22121	C	ILE	M	33	130.844	9.095	101.189	1.00185.39	M
ATOM	22122	O	ILE	M	33	130.461	8.316	102.061	1.00185.50	M
ATOM	22123	N	GLN	M	34	130.489	10.373	101.155	1.00186.32	M
ATOM	22124	CA	GLN	M	34	129.598	10.938	102.154	1.00187.42	M
ATOM	22125	CB	GLN	M	34	130.350	11.969	103.000	1.00188.75	M
ATOM	22126	CG	GLN	M	34	129.619	12.395	104.260	1.00190.21	M
ATOM	22127	CD	GLN	M	34	130.462	13.295	105.144	1.00190.77	M
ATOM	22128	OE1	GLN	M	34	130.862	14.387	104.739	1.00191.21	M
ATOM	22129	NE2	GLN	M	34	130.736	12.838	106.360	1.00190.83	M
ATOM	22130	C	GLN	M	34	128.434	11.592	101.422	1.00187.43	M
ATOM	22131	O	GLN	M	34	128.607	12.598	100.736	1.00187.69	M
ATOM	22132	N	SER	M	35	127.249	11.006	101.562	1.00187.52	M
ATOM	22133	CA	SER	M	35	126.058	11.520	100.897	1.00187.35	M
ATOM	22134	CB	SER	M	35	125.376	10.394	100.110	1.00187.12	M
ATOM	22135	OG	SER	M	35	126.254	9.838	99.145	1.00185.44	M
ATOM	22136	C	SER	M	35	125.056	12.146	101.865	1.00187.21	M
ATOM	22137	O	SER	M	35	125.165	11.989	103.083	1.00187.10	M
ATOM	22138	N	TRP	M	36	124.084	12.862	101.305	1.00186.50	M
ATOM	22139	CA	TRP	M	36	123.047	13.517	102.093	1.00185.12	M
ATOM	22140	CB	TRP	M	36	123.674	14.521	103.074	1.00186.99	M
ATOM	22141	CG	TRP	M	36	124.180	15.781	102.434	1.00188.71	M
ATOM	22142	CD2	TRP	M	36	125.531	16.071	102.058	1.00189.52	M
ATOM	22143	CE2	TRP	M	36	125.532	17.355	101.464	1.00190.09	M
ATOM	22144	CE3	TRP	M	36	126.743	15.373	102.166	1.00189.27	M
ATOM	22145	CD1	TRP	M	36	123.437	16.869	102.064	1.00189.16	M
ATOM	22146	NE1	TRP	M	36	124.242	17.817	101.481	1.00189.85	M
ATOM	22147	CZ2	TRP	M	36	126.698	17.954	100.975	1.00190.56	M
ATOM	22148	CZ3	TRP	M	36	127.905	15.972	101.677	1.00189.94	M
ATOM	22149	CH2	TRP	M	36	127.871	17.250	101.091	1.00190.11	M
ATOM	22150	C	TRP	M	36	122.071	14.225	101.154	1.00182.97	M
ATOM	22151	O	TRP	M	36	122.424	14.566	100.021	1.00182.13	M
ATOM	22152	N	VAL	M	37	120.846	14.443	101.627	1.00180.89	M
ATOM	22153	CA	VAL	M	37	119.821	15.098	100.821	1.00178.58	M
ATOM	22154	CB	VAL	M	37	118.634	14.152	100.548	1.00177.69	M
ATOM	22155	CG1	VAL	M	37	117.560	14.878	99.754	1.00177.14	M
ATOM	22156	CG2	VAL	M	37	119.117	12.933	99.785	1.00177.36	M
ATOM	22157	C	VAL	M	37	119.272	16.384	101.433	1.00177.51	M
ATOM	22158	O	VAL	M	37	118.620	16.371	102.479	1.00177.20	M
ATOM	22159	N	GLU	M	38	119.539	17.493	100.754	1.00176.54	M
ATOM	22160	CA	GLU	M	38	119.072	18.804	101.179	1.00175.15	M
ATOM	22161	CB	GLU	M	38	120.091	19.871	100.771	1.00175.45	M
ATOM	22162	CG	GLU	M	38	121.456	19.722	101.431	1.00174.10	M
ATOM	22163	CD	GLU	M	38	122.530	20.530	100.728	1.00173.73	M
ATOM	22164	OE1	GLU	M	38	122.282	21.715	100.428	1.00174.70	M
ATOM	22165	OE2	GLU	M	38	123.625	19.985	100.477	1.00172.40	M

ATOM	22166	C	GLU	M	38	117.743	19.054	100.467	1.00173.99	M
ATOM	22167	O	GLU	M	38	117.428	18.387	99.479	1.00173.61	M
ATOM	22168	N	ASN	M	39	116.959	20.005	100.965	1.00172.21	M
ATOM	22169	CA	ASN	M	39	115.681	20.305	100.337	1.00169.91	M
ATOM	22170	CB	ASN	M	39	114.645	20.735	101.381	1.00169.12	M
ATOM	22171	CG	ASN	M	39	115.040	22.001	102.115	1.00168.13	M
ATOM	22172	OD1	ASN	M	39	115.398	23.006	101.498	1.00167.32	M
ATOM	22173	ND2	ASN	M	39	114.961	21.964	103.440	1.00168.11	M
ATOM	22174	C	ASN	M	39	115.827	21.394	99.283	1.00168.80	M
ATOM	22175	O	ASN	M	39	116.939	21.780	98.916	1.00168.25	M
ATOM	22176	N	ALA	M	40	114.691	21.884	98.802	1.00168.06	M
ATOM	22177	CA	ALA	M	40	114.664	22.923	97.782	1.00167.20	M
ATOM	22178	CB	ALA	M	40	113.225	23.346	97.517	1.00166.33	M
ATOM	22179	C	ALA	M	40	115.504	24.131	98.185	1.00166.98	M
ATOM	22180	O	ALA	M	40	116.258	24.667	97.373	1.00166.32	M
ATOM	22181	N	ASP	M	41	115.372	24.551	99.441	1.00167.58	M
ATOM	22182	CA	ASP	M	41	116.118	25.697	99.953	1.00168.26	M
ATOM	22183	CB	ASP	M	41	115.405	26.303	101.167	1.00169.36	M
ATOM	22184	CG	ASP	M	41	114.031	26.853	100.828	1.00170.43	M
ATOM	22185	OD1	ASP	M	41	113.938	27.733	99.944	1.00170.31	M
ATOM	22186	OD2	ASP	M	41	113.043	26.410	101.453	1.00171.22	M
ATOM	22187	C	ASP	M	41	117.535	25.298	100.349	1.00168.25	M
ATOM	22188	O	ASP	M	41	118.162	25.949	101.187	1.00168.04	M
ATOM	22189	N	GLY	M	42	118.033	24.219	99.753	1.00168.50	M
ATOM	22190	CA	GLY	M	42	119.378	23.762	100.054	1.00168.81	M
ATOM	22191	C	GLY	M	42	119.617	23.398	101.507	1.00169.31	M
ATOM	22192	O	GLY	M	42	120.672	22.877	101.853	1.00169.24	M
ATOM	22193	N	VAL	M	43	118.641	23.673	102.363	1.00170.08	M
ATOM	22194	CA	VAL	M	43	118.771	23.358	103.781	1.00170.89	M
ATOM	22195	CB	VAL	M	43	117.706	24.129	104.624	1.00170.74	M
ATOM	22196	CG1	VAL	M	43	116.469	24.398	103.785	1.00170.47	M
ATOM	22197	CG2	VAL	M	43	117.325	23.325	105.870	1.00170.64	M
ATOM	22198	C	VAL	M	43	118.640	21.859	104.045	1.00171.53	M
ATOM	22199	O	VAL	M	43	117.648	21.239	103.667	1.00170.87	M
ATOM	22200	N	LYS	M	44	119.649	21.278	104.690	1.00172.82	M
ATOM	22201	CA	LYS	M	44	119.617	19.857	105.008	1.00174.01	M
ATOM	22202	CB	LYS	M	44	120.937	19.383	105.617	1.00173.56	M
ATOM	22203	CG	LYS	M	44	122.181	19.591	104.774	1.00173.54	M
ATOM	22204	CD	LYS	M	44	122.813	20.943	105.048	1.00172.65	M
ATOM	22205	CE	LYS	M	44	124.231	20.997	104.526	1.00172.53	M
ATOM	22206	NZ	LYS	M	44	125.095	19.987	105.182	1.00172.97	M
ATOM	22207	C	LYS	M	44	118.512	19.583	106.015	1.00174.93	M
ATOM	22208	O	LYS	M	44	118.369	20.298	107.011	1.00174.35	M
ATOM	22209	N	ASP	M	45	117.751	18.528	105.758	1.00176.16	M
ATOM	22210	CA	ASP	M	45	116.653	18.137	106.628	1.00177.12	M
ATOM	22211	CB	ASP	M	45	115.327	18.730	106.142	1.00177.43	M
ATOM	22212	CG	ASP	M	45	115.118	18.578	104.643	1.00177.44	M
ATOM	22213	OD1	ASP	M	45	115.638	17.617	104.043	1.00176.99	M
ATOM	22214	OD2	ASP	M	45	114.395	19.409	104.056	1.00177.61	M
ATOM	22215	C	ASP	M	45	116.550	16.626	106.668	1.00177.62	M
ATOM	22216	O	ASP	M	45	117.174	15.934	105.868	1.00177.89	M
ATOM	22217	N	GLY	M	46	115.772	16.112	107.611	1.00177.99	M
ATOM	22218	CA	GLY	M	46	115.625	14.675	107.723	1.00178.39	M
ATOM	22219	C	GLY	M	46	114.817	14.088	106.578	1.00178.84	M
ATOM	22220	O	GLY	M	46	114.802	12.870	106.398	1.00178.86	M
ATOM	22221	N	ARG	M	47	114.151	14.951	105.810	1.00179.19	M
ATOM	22222	CA	ARG	M	47	113.322	14.536	104.673	1.00179.21	M
ATOM	22223	CB	ARG	M	47	113.168	15.694	103.683	1.00179.49	M

ATOM	22224	CG	ARG	M	47	111.862	16.454	103.839	1.00179.89	M
ATOM	22225	CD	ARG	M	47	111.787	17.184	105.173	1.00179.96	M
ATOM	22226	NE	ARG	M	47	110.418	17.576	105.501	1.00180.70	M
ATOM	22227	CZ	ARG	M	47	109.474	16.727	105.898	1.00181.06	M
ATOM	22228	NH1	ARG	M	47	109.751	15.435	106.024	1.00180.32	M
ATOM	22229	NH2	ARG	M	47	108.249	17.166	106.158	1.00180.93	M
ATOM	22230	C	ARG	M	47	113.783	13.285	103.921	1.00178.63	M
ATOM	22231	O	ARG	M	47	113.007	12.343	103.753	1.00178.69	M
ATOM	22232	N	PHE	M	48	115.026	13.278	103.449	1.00177.57	M
ATOM	22233	CA	PHE	M	48	115.553	12.115	102.734	1.00176.31	M
ATOM	22234	CB	PHE	M	48	115.701	12.411	101.236	1.00175.85	M
ATOM	22235	CG	PHE	M	48	114.397	12.426	100.484	1.00175.18	M
ATOM	22236	CD1	PHE	M	48	113.596	13.564	100.469	1.00174.87	M
ATOM	22237	CD2	PHE	M	48	113.967	11.295	99.790	1.00173.75	M
ATOM	22238	CE1	PHE	M	48	112.388	13.575	99.774	1.00173.59	M
ATOM	22239	CE2	PHE	M	48	112.763	11.296	99.095	1.00171.69	M
ATOM	22240	CZ	PHE	M	48	111.972	12.436	99.085	1.00172.04	M
ATOM	22241	C	PHE	M	48	116.895	11.665	103.302	1.00175.30	M
ATOM	22242	O	PHE	M	48	117.808	12.474	103.477	1.00175.45	M
ATOM	22243	N	ILE	M	49	117.009	10.368	103.583	1.00173.58	M
ATOM	22244	CA	ILE	M	49	118.235	9.808	104.143	1.00172.06	M
ATOM	22245	CB	ILE	M	49	117.963	9.173	105.523	1.00170.65	M
ATOM	22246	CG2	ILE	M	49	119.261	8.632	106.112	1.00170.92	M
ATOM	22247	CG1	ILE	M	49	117.348	10.218	106.461	1.00168.28	M
ATOM	22248	CD1	ILE	M	49	116.971	9.684	107.821	1.00165.61	M
ATOM	22249	C	ILE	M	49	118.868	8.754	103.238	1.00171.56	M
ATOM	22250	O	ILE	M	49	118.271	7.713	102.975	1.00171.13	M
ATOM	22251	N	VAL	M	50	120.081	9.034	102.768	1.00171.61	M
ATOM	22252	CA	VAL	M	50	120.808	8.115	101.897	1.00171.75	M
ATOM	22253	CB	VAL	M	50	121.771	8.878	100.959	1.00170.75	M
ATOM	22254	CG1	VAL	M	50	122.526	7.903	100.071	1.00168.97	M
ATOM	22255	CG2	VAL	M	50	120.990	9.868	100.116	1.00170.56	M
ATOM	22256	C	VAL	M	50	121.615	7.134	102.740	1.00172.73	M
ATOM	22257	O	VAL	M	50	121.969	7.435	103.882	1.00173.35	M
ATOM	22258	N	THR	M	51	121.903	5.965	102.173	1.00173.19	M
ATOM	22259	CA	THR	M	51	122.661	4.929	102.875	1.00173.75	M
ATOM	22260	CB	THR	M	51	121.715	4.004	103.668	1.00173.18	M
ATOM	22261	OG1	THR	M	51	120.704	3.489	102.793	1.00173.55	M
ATOM	22262	CG2	THR	M	51	121.050	4.762	104.808	1.00172.59	M
ATOM	22263	C	THR	M	51	123.500	4.067	101.924	1.00174.03	M
ATOM	22264	O	THR	M	51	123.048	3.713	100.835	1.00173.81	M
ATOM	22265	N	PRO	M	52	124.735	3.714	102.329	1.00174.43	M
ATOM	22266	CD	PRO	M	52	125.547	2.737	101.585	1.00174.20	M
ATOM	22267	CA	PRO	M	52	125.385	4.074	103.597	1.00174.76	M
ATOM	22268	CB	PRO	M	52	126.555	3.092	103.674	1.00174.71	M
ATOM	22269	CG	PRO	M	52	126.893	2.867	102.244	1.00174.67	M
ATOM	22270	C	PRO	M	52	125.833	5.540	103.651	1.00174.64	M
ATOM	22271	O	PRO	M	52	126.282	6.102	102.650	1.00174.47	M
ATOM	22272	N	PRO	M	53	125.712	6.173	104.831	1.00174.31	M
ATOM	22273	CD	PRO	M	53	125.218	5.554	106.074	1.00174.03	M
ATOM	22274	CA	PRO	M	53	126.083	7.573	105.066	1.00174.30	M
ATOM	22275	CB	PRO	M	53	125.484	7.851	106.436	1.00174.49	M
ATOM	22276	CG	PRO	M	53	125.668	6.540	107.130	1.00174.46	M
ATOM	22277	C	PRO	M	53	127.584	7.849	105.026	1.00174.47	M
ATOM	22278	O	PRO	M	53	128.011	9.004	104.947	1.00174.05	M
ATOM	22279	N	LEU	M	54	128.377	6.785	105.092	1.00174.65	M
ATOM	22280	CA	LEU	M	54	129.829	6.906	105.055	1.00174.29	M
ATOM	22281	CB	LEU	M	54	130.346	7.501	106.368	1.00173.10	M

ATOM	22282	CG	LEU	M	54	131.853	7.754	106.453	1.00172.05	M
ATOM	22283	CD1	LEU	M	54	132.304	8.652	105.307	1.00171.25	M
ATOM	22284	CD2	LEU	M	54	132.169	8.399	107.790	1.00171.55	M
ATOM	22285	C	LEU	M	54	130.472	5.546	104.814	1.00174.09	M
ATOM	22286	O	LEU	M	54	130.196	4.583	105.528	1.00174.19	M
ATOM	22287	N	PHE	M	55	131.327	5.476	103.800	1.00173.75	M
ATOM	22288	CA	PHE	M	55	132.010	4.238	103.456	1.00173.39	M
ATOM	22289	CB	PHE	M	55	131.020	3.255	102.826	1.00174.55	M
ATOM	22290	CG	PHE	M	55	130.447	3.718	101.515	1.00175.91	M
ATOM	22291	CD1	PHE	M	55	130.996	3.286	100.311	1.00176.38	M
ATOM	22292	CD2	PHE	M	55	129.349	4.571	101.482	1.00176.07	M
ATOM	22293	CE1	PHE	M	55	130.457	3.693	99.092	1.00176.40	M
ATOM	22294	CE2	PHE	M	55	128.801	4.986	100.268	1.00176.29	M
ATOM	22295	CZ	PHE	M	55	129.356	4.544	99.070	1.00176.52	M
ATOM	22296	C	PHE	M	55	133.149	4.549	102.492	1.00172.72	M
ATOM	22297	O	PHE	M	55	133.275	5.682	102.027	1.00173.32	M
ATOM	22298	N	ALA	M	56	133.972	3.550	102.188	1.00171.11	M
ATOM	22299	CA	ALA	M	56	135.103	3.766	101.291	1.00168.96	M
ATOM	22300	CB	ALA	M	56	136.404	3.585	102.061	1.00168.57	M
ATOM	22301	C	ALA	M	56	135.112	2.881	100.049	1.00167.22	M
ATOM	22302	O	ALA	M	56	134.787	1.697	100.113	1.00167.07	M
ATOM	22303	N	MET	M	57	135.487	3.475	98.919	1.00165.89	M
ATOM	22304	CA	MET	M	57	135.579	2.763	97.649	1.00164.80	M
ATOM	22305	CB	MET	M	57	134.763	3.460	96.562	1.00164.34	M
ATOM	22306	CG	MET	M	57	133.269	3.443	96.786	1.00164.41	M
ATOM	22307	SD	MET	M	57	132.381	3.448	95.212	1.00164.28	M
ATOM	22308	CE	MET	M	57	132.770	5.074	94.615	1.00163.98	M
ATOM	22309	C	MET	M	57	137.035	2.716	97.214	1.00164.30	M
ATOM	22310	O	MET	M	57	137.541	3.659	96.603	1.00164.30	M
ATOM	22311	N	LYS	M	58	137.703	1.612	97.528	1.00163.39	M
ATOM	22312	CA	LYS	M	58	139.108	1.448	97.181	1.00162.34	M
ATOM	22313	CB	LYS	M	58	139.742	0.381	98.078	1.00163.46	M
ATOM	22314	CG	LYS	M	58	141.255	0.462	98.167	1.00164.38	M
ATOM	22315	CD	LYS	M	58	141.806	-0.655	99.036	1.00165.24	M
ATOM	22316	CE	LYS	M	58	143.236	-0.367	99.460	1.00165.94	M
ATOM	22317	NZ	LYS	M	58	143.301	0.818	100.367	1.00167.11	M
ATOM	22318	C	LYS	M	58	139.280	1.062	95.713	1.00160.63	M
ATOM	22319	O	LYS	M	58	138.554	0.210	95.199	1.00160.39	M
ATOM	22320	N	GLY	M	59	140.241	1.699	95.046	1.00158.73	M
ATOM	22321	CA	GLY	M	59	140.502	1.412	93.645	1.00156.78	M
ATOM	22322	C	GLY	M	59	139.243	1.355	92.803	1.00155.66	M
ATOM	22323	O	GLY	M	59	138.205	1.892	93.195	1.00156.04	M
ATOM	22324	N	LYS	M	60	139.326	0.706	91.645	1.00154.40	M
ATOM	22325	CA	LYS	M	60	138.168	0.594	90.766	1.00153.85	M
ATOM	22326	CB	LYS	M	60	138.572	0.067	89.386	1.00151.86	M
ATOM	22327	CG	LYS	M	60	139.568	0.931	88.650	1.00148.89	M
ATOM	22328	CD	LYS	M	60	139.533	0.667	87.154	1.00147.81	M
ATOM	22329	CE	LYS	M	60	138.283	1.253	86.514	1.00146.66	M
ATOM	22330	NZ	LYS	M	60	138.343	1.206	85.024	1.00145.64	M
ATOM	22331	C	LYS	M	60	137.117	-0.333	91.362	1.00154.54	M
ATOM	22332	O	LYS	M	60	137.227	-1.556	91.258	1.00154.86	M
ATOM	22333	N	LYS	M	61	136.101	0.252	91.988	1.00154.80	M
ATOM	22334	CA	LYS	M	61	135.028	-0.529	92.586	1.00155.05	M
ATOM	22335	CB	LYS	M	61	134.996	-0.335	94.101	1.00155.31	M
ATOM	22336	CG	LYS	M	61	134.980	-1.643	94.872	1.00156.23	M
ATOM	22337	CD	LYS	M	61	134.149	-1.533	96.134	1.00157.03	M
ATOM	22338	CE	LYS	M	61	134.624	-0.399	97.024	1.00157.18	M
ATOM	22339	NZ	LYS	M	61	133.735	-0.248	98.206	1.00158.81	M

ATOM	22340	C	LYS	M	61	133.698	-0.099	91.991	1.00155.48	M
ATOM	22341	O	LYS	M	61	133.649	0.375	90.855	1.00155.31	M
ATOM	22342	N	GLU	M	62	132.623	-0.264	92.757	1.00156.55	M
ATOM	22343	CA	GLU	M	62	131.289	0.111	92.298	1.00157.88	M
ATOM	22344	CB	GLU	M	62	131.009	-0.553	90.942	1.00157.46	M
ATOM	22345	CG	GLU	M	62	130.182	0.280	89.975	1.00156.41	M
ATOM	22346	CD	GLU	M	62	128.693	0.051	90.118	1.00156.38	M
ATOM	22347	OE1	GLU	M	62	128.166	0.245	91.234	1.00155.85	M
ATOM	22348	OE2	GLU	M	62	128.052	-0.319	89.108	1.00156.00	M
ATOM	22349	C	GLU	M	62	130.249	-0.323	93.335	1.00158.52	M
ATOM	22350	O	GLU	M	62	129.882	-1.497	93.409	1.00158.48	M
ATOM	22351	N	ASN	M	63	129.786	0.629	94.142	1.00159.21	M
ATOM	22352	CA	ASN	M	63	128.796	0.345	95.177	1.00159.78	M
ATOM	22353	CB	ASN	M	63	129.299	0.841	96.534	1.00157.82	M
ATOM	22354	CG	ASN	M	63	130.669	0.299	96.879	1.00155.75	M
ATOM	22355	OD1	ASN	M	63	131.623	0.457	96.118	1.00153.12	M
ATOM	22356	ND2	ASN	M	63	130.775	-0.343	98.035	1.00155.43	M
ATOM	22357	C	ASN	M	63	127.450	0.992	94.869	1.00161.10	M
ATOM	22358	O	ASN	M	63	127.323	1.763	93.919	1.00160.85	M
ATOM	22359	N	THR	M	64	126.451	0.676	95.687	1.00163.13	M
ATOM	22360	CA	THR	M	64	125.108	1.214	95.505	1.00165.47	M
ATOM	22361	CB	THR	M	64	124.091	0.076	95.246	1.00165.16	M
ATOM	22362	OG1	THR	M	64	124.485	-0.662	94.083	1.00166.13	M
ATOM	22363	CG2	THR	M	64	122.695	0.639	95.029	1.00163.97	M
ATOM	22364	C	THR	M	64	124.636	2.018	96.719	1.00167.59	M
ATOM	22365	O	THR	M	64	124.765	1.572	97.860	1.00168.18	M
ATOM	22366	N	LEU	M	65	124.093	3.205	96.462	1.00169.23	M
ATOM	22367	CA	LEU	M	65	123.578	4.070	97.523	1.00170.73	M
ATOM	22368	CB	LEU	M	65	123.862	5.540	97.197	1.00171.06	M
ATOM	22369	CG	LEU	M	65	125.330	5.968	97.137	1.00171.03	M
ATOM	22370	CD1	LEU	M	65	125.425	7.412	96.668	1.00170.39	M
ATOM	22371	CD2	LEU	M	65	125.973	5.803	98.508	1.00171.52	M
ATOM	22372	C	LEU	M	65	122.072	3.843	97.632	1.00171.52	M
ATOM	22373	O	LEU	M	65	121.417	3.570	96.629	1.00172.20	M
ATOM	22374	N	ARG	M	66	121.524	3.956	98.840	1.00171.93	M
ATOM	22375	CA	ARG	M	66	120.094	3.738	99.044	1.00172.27	M
ATOM	22376	CB	ARG	M	66	119.873	2.482	99.895	1.00172.53	M
ATOM	22377	CG	ARG	M	66	120.623	1.253	99.390	1.00173.64	M
ATOM	22378	CD	ARG	M	66	120.307	0.006	100.211	1.00173.63	M
ATOM	22379	NE	ARG	M	66	121.162	-1.126	99.856	1.00174.11	M
ATOM	22380	CZ	ARG	M	66	121.251	-1.650	98.636	1.00174.62	M
ATOM	22381	NH1	ARG	M	66	120.536	-1.149	97.634	1.00174.76	M
ATOM	22382	NH2	ARG	M	66	122.056	-2.681	98.415	1.00173.87	M
ATOM	22383	C	ARG	M	66	119.389	4.929	99.692	1.00172.63	M
ATOM	22384	O	ARG	M	66	119.609	5.237	100.865	1.00171.99	M
ATOM	22385	N	ILE	M	67	118.536	5.588	98.910	1.00173.59	M
ATOM	22386	CA	ILE	M	67	117.772	6.749	99.367	1.00174.49	M
ATOM	22387	CB	ILE	M	67	117.301	7.627	98.174	1.00174.68	M
ATOM	22388	CG2	ILE	M	67	116.371	8.722	98.667	1.00175.17	M
ATOM	22389	CG1	ILE	M	67	118.499	8.256	97.459	1.00175.12	M
ATOM	22390	CD1	ILE	M	67	119.329	7.279	96.653	1.00176.75	M
ATOM	22391	C	ILE	M	67	116.535	6.303	100.142	1.00174.68	M
ATOM	22392	O	ILE	M	67	115.611	5.728	99.570	1.00174.67	M
ATOM	22393	N	LEU	M	68	116.512	6.586	101.440	1.00174.82	M
ATOM	22394	CA	LEU	M	68	115.387	6.196	102.283	1.00174.34	M
ATOM	22395	CB	LEU	M	68	115.899	5.675	103.623	1.00173.71	M
ATOM	22396	CG	LEU	M	68	117.086	4.714	103.553	1.00172.89	M
ATOM	22397	CD1	LEU	M	68	117.500	4.336	104.959	1.00172.44	M

ATOM	22398	CD2	LEU	M	68	116.720	3.480	102.748	1.00172.70	M
ATOM	22399	C	LEU	M	68	114.436	7.360	102.524	1.00174.43	M
ATOM	22400	O	LEU	M	68	114.867	8.480	102.796	1.00173.91	M
ATOM	22401	N	ASP	M	69	113.140	7.081	102.432	1.00175.15	M
ATOM	22402	CA	ASP	M	69	112.114	8.098	102.629	1.00175.94	M
ATOM	22403	CB	ASP	M	69	110.837	7.696	101.875	1.00175.49	M
ATOM	22404	CG	ASP	M	69	109.818	8.821	101.800	1.00175.04	M
ATOM	22405	OD1	ASP	M	69	108.856	8.714	101.005	1.00174.49	M
ATOM	22406	OD2	ASP	M	69	109.977	9.811	102.539	1.00174.84	M
ATOM	22407	C	ASP	M	69	111.813	8.295	104.115	1.00176.53	M
ATOM	22408	O	ASP	M	69	111.114	7.489	104.729	1.00176.21	M
ATOM	22409	N	ALA	M	70	112.352	9.371	104.685	1.00177.31	M
ATOM	22410	CA	ALA	M	70	112.146	9.693	106.096	1.00177.60	M
ATOM	22411	CB	ALA	M	70	113.383	10.385	106.664	1.00177.98	M
ATOM	22412	C	ALA	M	70	110.921	10.587	106.256	1.00178.07	M
ATOM	22413	O	ALA	M	70	110.208	10.500	107.257	1.00177.88	M
ATOM	22414	N	THR	M	71	110.684	11.453	105.272	1.00178.68	M
ATOM	22415	CA	THR	M	71	109.524	12.339	105.309	1.00178.96	M
ATOM	22416	CB	THR	M	71	109.504	13.314	104.098	1.00179.77	M
ATOM	22417	OG1	THR	M	71	108.251	14.008	104.064	1.00180.61	M
ATOM	22418	CG2	THR	M	71	109.704	12.566	102.789	1.00180.08	M
ATOM	22419	C	THR	M	71	108.270	11.469	105.285	1.00178.47	M
ATOM	22420	O	THR	M	71	107.952	10.852	104.268	1.00179.10	M
ATOM	22421	N	ASN	M	72	107.572	11.415	106.415	1.00177.09	M
ATOM	22422	CA	ASN	M	72	106.360	10.608	106.539	1.00175.60	M
ATOM	22423	CB	ASN	M	72	105.938	10.524	108.010	1.00176.00	M
ATOM	22424	CG	ASN	M	72	106.786	9.544	108.808	1.00176.03	M
ATOM	22425	OD1	ASN	M	72	106.665	9.454	110.030	1.00176.13	M
ATOM	22426	ND2	ASN	M	72	107.641	8.797	108.118	1.00175.58	M
ATOM	22427	C	ASN	M	72	105.188	11.111	105.695	1.00174.20	M
ATOM	22428	O	ASN	M	72	104.099	11.361	106.217	1.00174.33	M
ATOM	22429	N	ASN	M	73	105.411	11.246	104.390	1.00172.16	M
ATOM	22430	CA	ASN	M	73	104.371	11.710	103.474	1.00169.18	M
ATOM	22431	CB	ASN	M	73	103.183	10.743	103.510	1.00167.64	M
ATOM	22432	CG	ASN	M	73	103.599	9.297	103.300	1.00165.67	M
ATOM	22433	OD1	ASN	M	73	104.349	8.730	104.096	1.00164.27	M
ATOM	22434	ND2	ASN	M	73	103.113	8.694	102.223	1.00164.28	M
ATOM	22435	C	ASN	M	73	103.918	13.111	103.882	1.00167.69	M
ATOM	22436	O	ASN	M	73	102.749	13.468	103.743	1.00167.50	M
ATOM	22437	N	GLN	M	74	104.860	13.900	104.385	1.00166.02	M
ATOM	22438	CA	GLN	M	74	104.576	15.253	104.845	1.00163.77	M
ATOM	22439	CB	GLN	M	74	105.500	15.585	106.025	1.00164.26	M
ATOM	22440	CG	GLN	M	74	105.305	14.640	107.220	1.00164.40	M
ATOM	22441	CD	GLN	M	74	106.478	14.623	108.196	1.00164.21	M
ATOM	22442	OE1	GLN	M	74	106.440	13.928	109.214	1.00162.72	M
ATOM	22443	NE2	GLN	M	74	107.525	15.380	107.886	1.00164.88	M
ATOM	22444	C	GLN	M	74	104.743	16.275	103.725	1.00161.49	M
ATOM	22445	O	GLN	M	74	104.644	17.483	103.952	1.00161.45	M
ATOM	22446	N	LEU	M	75	104.975	15.779	102.513	1.00158.66	M
ATOM	22447	CA	LEU	M	75	105.165	16.637	101.351	1.00156.20	M
ATOM	22448	CB	LEU	M	75	106.343	16.125	100.522	1.00155.16	M
ATOM	22449	CG	LEU	M	75	107.713	16.208	101.190	1.00154.22	M
ATOM	22450	CD1	LEU	M	75	108.715	15.410	100.384	1.00154.22	M
ATOM	22451	CD2	LEU	M	75	108.142	17.660	101.311	1.00152.86	M
ATOM	22452	C	LEU	M	75	103.916	16.711	100.476	1.00154.62	M
ATOM	22453	O	LEU	M	75	103.048	15.841	100.543	1.00153.57	M
ATOM	22454	N	PRO	M	76	103.809	17.763	99.646	1.00153.63	M
ATOM	22455	CD	PRO	M	76	104.770	18.873	99.509	1.00152.99	M

ATOM	22456	CA	PRO	M	76	102.664	17.956	98.751	1.00152.50	M
ATOM	22457	CB	PRO	M	76	103.092	19.148	97.902	1.00152.18	M
ATOM	22458	CG	PRO	M	76	103.928	19.938	98.851	1.00152.33	M
ATOM	22459	C	PRO	M	76	102.425	16.709	97.912	1.00151.95	M
ATOM	22460	O	PRO	M	76	103.370	16.119	97.385	1.00152.44	M
ATOM	22461	N	GLN	M	77	101.164	16.310	97.788	1.00150.89	M
ATOM	22462	CA	GLN	M	77	100.818	15.123	97.018	1.00149.87	M
ATOM	22463	CB	GLN	M	77	99.973	14.180	97.879	1.00147.79	M
ATOM	22464	CG	GLN	M	77	100.610	13.853	99.227	1.00144.44	M
ATOM	22465	CD	GLN	M	77	101.965	13.177	99.095	1.00142.69	M
ATOM	22466	OE1	GLN	M	77	102.707	13.052	100.069	1.00141.15	M
ATOM	22467	NE2	GLN	M	77	102.289	12.729	97.887	1.00142.16	M
ATOM	22468	C	GLN	M	77	100.077	15.470	95.725	1.00150.64	M
ATOM	22469	O	GLN	M	77	99.331	14.649	95.185	1.00150.39	M
ATOM	22470	N	ASP	M	78	100.298	16.687	95.232	1.00151.83	M
ATOM	22471	CA	ASP	M	78	99.667	17.158	94.001	1.00152.07	M
ATOM	22472	CB	ASP	M	78	98.726	18.334	94.296	1.00151.52	M
ATOM	22473	CG	ASP	M	78	99.467	19.581	94.761	1.00151.61	M
ATOM	22474	OD1	ASP	M	78	98.814	20.639	94.892	1.00150.85	M
ATOM	22475	OD2	ASP	M	78	100.694	19.510	94.996	1.00151.03	M
ATOM	22476	C	ASP	M	78	100.704	17.593	92.962	1.00152.37	M
ATOM	22477	O	ASP	M	78	100.350	18.020	91.864	1.00152.26	M
ATOM	22478	N	ARG	M	79	101.982	17.481	93.317	1.00152.49	M
ATOM	22479	CA	ARG	M	79	103.081	17.867	92.431	1.00151.46	M
ATOM	22480	CB	ARG	M	79	103.213	19.389	92.391	1.00151.82	M
ATOM	22481	CG	ARG	M	79	103.727	19.990	93.694	1.00152.66	M
ATOM	22482	CD	ARG	M	79	103.509	21.490	93.745	1.00152.34	M
ATOM	22483	NE	ARG	M	79	102.089	21.811	93.823	1.00153.50	M
ATOM	22484	CZ	ARG	M	79	101.603	23.048	93.849	1.00153.79	M
ATOM	22485	NH1	ARG	M	79	102.426	24.090	93.802	1.00153.05	M
ATOM	22486	NH2	ARG	M	79	100.293	23.245	93.922	1.00154.58	M
ATOM	22487	C	ARG	M	79	104.380	17.280	92.968	1.00150.54	M
ATOM	22488	O	ARG	M	79	104.378	16.584	93.983	1.00150.86	M
ATOM	22489	N	GLU	M	80	105.491	17.573	92.299	1.00148.95	M
ATOM	22490	CA	GLU	M	80	106.779	17.065	92.756	1.00147.36	M
ATOM	22491	CB	GLU	M	80	107.725	16.805	91.587	1.00144.34	M
ATOM	22492	CG	GLU	M	80	107.095	16.303	90.323	1.00140.05	M
ATOM	22493	CD	GLU	M	80	108.146	15.896	89.322	1.00138.75	M
ATOM	22494	OE1	GLU	M	80	108.646	14.760	89.424	1.00139.82	M
ATOM	22495	OE2	GLU	M	80	108.493	16.714	88.448	1.00137.08	M
ATOM	22496	C	GLU	M	80	107.450	18.078	93.674	1.00147.27	M
ATOM	22497	O	GLU	M	80	107.382	19.284	93.431	1.00145.79	M
ATOM	22498	N	SER	M	81	108.094	17.580	94.725	1.00148.36	M
ATOM	22499	CA	SER	M	81	108.815	18.433	95.661	1.00149.23	M
ATOM	22500	CB	SER	M	81	108.561	18.003	97.110	1.00149.19	M
ATOM	22501	OG	SER	M	81	107.228	18.277	97.513	1.00148.12	M
ATOM	22502	C	SER	M	81	110.291	18.269	95.318	1.00149.91	M
ATOM	22503	O	SER	M	81	110.845	17.177	95.439	1.00149.37	M
ATOM	22504	N	LEU	M	82	110.919	19.353	94.878	1.00151.31	M
ATOM	22505	CA	LEU	M	82	112.323	19.315	94.498	1.00152.41	M
ATOM	22506	CB	LEU	M	82	112.654	20.506	93.589	1.00151.39	M
ATOM	22507	CG	LEU	M	82	114.083	20.685	93.063	1.00150.12	M
ATOM	22508	CD1	LEU	M	82	114.568	19.422	92.375	1.00148.97	M
ATOM	22509	CD2	LEU	M	82	114.110	21.858	92.093	1.00149.59	M
ATOM	22510	C	LEU	M	82	113.271	19.298	95.686	1.00154.15	M
ATOM	22511	O	LEU	M	82	113.148	20.101	96.614	1.00154.46	M
ATOM	22512	N	PHE	M	83	114.205	18.351	95.642	1.00155.88	M
ATOM	22513	CA	PHE	M	83	115.240	18.181	96.658	1.00157.38	M

ATOM	22514	CB	PHE	M	83	115.022	16.901	97.474	1.00156.75	M
ATOM	22515	CG	PHE	M	83	113.872	16.977	98.430	1.00157.30	M
ATOM	22516	CD1	PHE	M	83	112.562	17.009	97.962	1.00156.79	M
ATOM	22517	CD2	PHE	M	83	114.097	17.032	99.802	1.00158.11	M
ATOM	22518	CE1	PHE	M	83	111.492	17.097	98.846	1.00156.65	M
ATOM	22519	CE2	PHE	M	83	113.034	17.121	100.695	1.00158.03	M
ATOM	22520	CZ	PHE	M	83	111.728	17.153	100.216	1.00157.40	M
ATOM	22521	C	PHE	M	83	116.547	18.059	95.888	1.00158.96	M
ATOM	22522	O	PHE	M	83	116.560	18.191	94.663	1.00159.98	M
ATOM	22523	N	TRP	M	84	117.642	17.809	96.595	1.00159.60	M
ATOM	22524	CA	TRP	M	84	118.927	17.663	95.932	1.00159.75	M
ATOM	22525	CB	TRP	M	84	119.685	18.993	95.914	1.00159.09	M
ATOM	22526	CG	TRP	M	84	119.052	20.031	95.039	1.00157.37	M
ATOM	22527	CD2	TRP	M	84	119.334	20.277	93.654	1.00156.51	M
ATOM	22528	CE2	TRP	M	84	118.490	21.330	93.235	1.00156.14	M
ATOM	22529	CE3	TRP	M	84	120.219	19.711	92.726	1.00155.84	M
ATOM	22530	CD1	TRP	M	84	118.075	20.917	95.392	1.00157.21	M
ATOM	22531	NE1	TRP	M	84	117.731	21.703	94.314	1.00156.58	M
ATOM	22532	CZ2	TRP	M	84	118.504	21.827	91.928	1.00155.04	M
ATOM	22533	CZ3	TRP	M	84	120.233	20.208	91.423	1.00154.24	M
ATOM	22534	CH2	TRP	M	84	119.381	21.254	91.040	1.00154.08	M
ATOM	22535	C	TRP	M	84	119.796	16.585	96.555	1.00160.11	M
ATOM	22536	O	TRP	M	84	119.986	16.539	97.771	1.00158.87	M
ATOM	22537	N	MET	M	85	120.323	15.718	95.700	1.00161.76	M
ATOM	22538	CA	MET	M	85	121.180	14.628	96.132	1.00163.23	M
ATOM	22539	CB	MET	M	85	120.872	13.377	95.312	1.00164.14	M
ATOM	22540	CG	MET	M	85	121.869	12.256	95.519	1.00166.31	M
ATOM	22541	SD	MET	M	85	121.917	11.668	97.229	1.00168.22	M
ATOM	22542	CE	MET	M	85	122.014	9.890	96.957	1.00167.15	M
ATOM	22543	C	MET	M	85	122.653	14.997	95.975	1.00163.61	M
ATOM	22544	O	MET	M	85	123.096	15.362	94.885	1.00163.11	M
ATOM	22545	N	ASN	M	86	123.407	14.899	97.067	1.00164.54	M
ATOM	22546	CA	ASN	M	86	124.830	15.216	97.036	1.00166.01	M
ATOM	22547	CB	ASN	M	86	125.126	16.439	97.906	1.00166.65	M
ATOM	22548	CG	ASN	M	86	124.423	17.686	97.411	1.00167.31	M
ATOM	22549	OD1	ASN	M	86	123.204	17.813	97.527	1.00167.49	M
ATOM	22550	ND2	ASN	M	86	125.190	18.611	96.847	1.00167.18	M
ATOM	22551	C	ASN	M	86	125.689	14.049	97.499	1.00166.92	M
ATOM	22552	O	ASN	M	86	125.415	13.426	98.524	1.00166.30	M
ATOM	22553	N	VAL	M	87	126.733	13.764	96.726	1.00168.66	M
ATOM	22554	CA	VAL	M	87	127.666	12.683	97.026	1.00170.22	M
ATOM	22555	CB	VAL	M	87	127.608	11.576	95.947	1.00171.09	M
ATOM	22556	CG1	VAL	M	87	128.619	10.481	96.263	1.00171.27	M
ATOM	22557	CG2	VAL	M	87	126.202	10.995	95.876	1.00171.36	M
ATOM	22558	C	VAL	M	87	129.073	13.269	97.071	1.00170.56	M
ATOM	22559	O	VAL	M	87	129.615	13.691	96.048	1.00169.92	M
ATOM	22560	N	LYS	M	88	129.655	13.292	98.265	1.00171.63	M
ATOM	22561	CA	LYS	M	88	130.989	13.849	98.466	1.00173.05	M
ATOM	22562	CB	LYS	M	88	131.047	14.584	99.807	1.00172.63	M
ATOM	22563	CG	LYS	M	88	132.411	15.155	100.146	1.00172.36	M
ATOM	22564	CD	LYS	M	88	132.407	15.778	101.527	1.00171.85	M
ATOM	22565	CE	LYS	M	88	133.776	16.321	101.890	1.00172.06	M
ATOM	22566	NZ	LYS	M	88	133.823	16.758	103.312	1.00172.01	M
ATOM	22567	C	LYS	M	88	132.102	12.812	98.419	1.00174.25	M
ATOM	22568	O	LYS	M	88	132.057	11.807	99.127	1.00174.12	M
ATOM	22569	N	ALA	M	89	133.105	13.074	97.586	1.00176.16	M
ATOM	22570	CA	ALA	M	89	134.251	12.181	97.442	1.00177.90	M
ATOM	22571	CB	ALA	M	89	134.638	12.060	95.972	1.00177.80	M

ATOM	22572	C	ALA	M	89	135.430	12.714	98.254	1.00178.72	M
ATOM	22573	O	ALA	M	89	136.090	13.672	97.853	1.00178.26	M
ATOM	22574	N	ILE	M	90	135.688	12.084	99.395	1.00180.34	M
ATOM	22575	CA	ILE	M	90	136.778	12.495	100.274	1.00182.13	M
ATOM	22576	CB	ILE	M	90	136.373	12.370	101.762	1.00181.86	M
ATOM	22577	CG2	ILE	M	90	137.473	12.936	102.647	1.00180.86	M
ATOM	22578	CG1	ILE	M	90	135.050	13.101	102.012	1.00182.13	M
ATOM	22579	CD1	ILE	M	90	134.508	12.948	103.427	1.00181.27	M
ATOM	22580	C	ILE	M	90	138.036	11.654	100.057	1.00183.66	M
ATOM	22581	O	ILE	M	90	138.019	10.436	100.238	1.00183.94	M
ATOM	22582	N	PRO	M	91	139.146	12.296	99.664	1.00184.76	M
ATOM	22583	CD	PRO	M	91	139.291	13.714	99.291	1.00185.16	M
ATOM	22584	CA	PRO	M	91	140.398	11.571	99.436	1.00185.33	M
ATOM	22585	CB	PRO	M	91	141.229	12.570	98.643	1.00184.82	M
ATOM	22586	CG	PRO	M	91	140.791	13.872	99.212	1.00185.02	M
ATOM	22587	C	PRO	M	91	141.062	11.170	100.751	1.00186.13	M
ATOM	22588	O	PRO	M	91	140.381	10.912	101.745	1.00186.24	M
ATOM	22589	N	SER	M	92	142.391	11.125	100.754	1.00186.89	M
ATOM	22590	CA	SER	M	92	143.143	10.747	101.947	1.00187.23	M
ATOM	22591	CB	SER	M	92	143.814	9.391	101.730	1.00186.50	M
ATOM	22592	OG	SER	M	92	143.101	8.622	100.771	1.00185.32	M
ATOM	22593	C	SER	M	92	144.211	11.791	102.259	1.00187.91	M
ATOM	22594	O	SER	M	92	144.730	12.445	101.358	1.00187.25	M
ATOM	22595	N	MET	M	93	144.542	11.940	103.536	1.00189.49	M
ATOM	22596	CA	MET	M	93	145.556	12.904	103.947	1.00191.35	M
ATOM	22597	CB	MET	M	93	145.456	13.153	105.457	1.00192.18	M
ATOM	22598	CG	MET	M	93	145.963	14.519	105.932	1.00193.50	M
ATOM	22599	SD	MET	M	93	147.760	14.754	105.824	1.00195.23	M
ATOM	22600	CE	MET	M	93	148.233	14.577	107.555	1.00195.50	M
ATOM	22601	C	MET	M	93	146.924	12.323	103.590	1.00192.44	M
ATOM	22602	O	MET	M	93	147.243	11.195	103.970	1.00192.20	M
ATOM	22603	N	ASP	M	94	147.722	13.091	102.851	1.00193.67	M
ATOM	22604	CA	ASP	M	94	149.053	12.645	102.440	1.00194.42	M
ATOM	22605	CB	ASP	M	94	149.556	13.446	101.229	1.00193.94	M
ATOM	22606	CG	ASP	M	94	148.701	13.248	99.992	1.00193.59	M
ATOM	22607	OD1	ASP	M	94	149.175	13.596	98.885	1.00192.77	M
ATOM	22608	OD2	ASP	M	94	147.558	12.754	100.126	1.00193.35	M
ATOM	22609	C	ASP	M	94	150.073	12.788	103.563	1.00195.01	M
ATOM	22610	O	ASP	M	94	150.434	13.904	103.946	1.00195.20	M
ATOM	22611	N	LYS	M	95	150.540	11.659	104.087	1.00195.38	M
ATOM	22612	CA	LYS	M	95	151.538	11.677	105.149	1.00195.52	M
ATOM	22613	CB	LYS	M	95	151.595	10.321	105.864	1.00195.10	M
ATOM	22614	CG	LYS	M	95	150.332	9.967	106.643	1.00194.20	M
ATOM	22615	CD	LYS	M	95	149.192	9.538	105.733	1.00193.30	M
ATOM	22616	CE	LYS	M	95	149.498	8.219	105.043	1.00192.16	M
ATOM	22617	NZ	LYS	M	95	148.359	7.770	104.199	1.00191.02	M
ATOM	22618	C	LYS	M	95	152.893	11.986	104.514	1.00195.71	M
ATOM	22619	O	LYS	M	95	153.917	12.054	105.204	1.00195.93	M
ATOM	22620	N	SER	M	96	152.880	12.183	103.194	1.00195.20	M
ATOM	22621	CA	SER	M	96	154.084	12.486	102.420	1.00194.01	M
ATOM	22622	CB	SER	M	96	154.074	11.707	101.102	1.00193.01	M
ATOM	22623	OG	SER	M	96	153.018	12.145	100.251	1.00191.10	M
ATOM	22624	C	SER	M	96	154.202	13.981	102.117	1.00193.50	M
ATOM	22625	O	SER	M	96	155.260	14.459	101.707	1.00193.52	M
ATOM	22626	N	LYS	M	97	153.111	14.712	102.323	1.00192.62	M
ATOM	22627	CA	LYS	M	97	153.089	16.147	102.082	1.00191.46	M
ATOM	22628	CB	LYS	M	97	152.058	16.476	100.996	1.00189.77	M
ATOM	22629	CG	LYS	M	97	152.057	15.521	99.808	1.00186.88	M

ATOM	22630	CD	LYS	M	97	153.414	15.461	99.134	1.00185.03	M
ATOM	22631	CE	LYS	M	97	153.418	14.423	98.030	1.00183.54	M
ATOM	22632	NZ	LYS	M	97	154.756	14.287	97.393	1.00182.57	M
ATOM	22633	C	LYS	M	97	152.739	16.863	103.385	1.00191.61	M
ATOM	22634	O	LYS	M	97	152.483	18.068	103.399	1.00191.24	M
ATOM	22635	N	LEU	M	98	152.732	16.100	104.475	1.00192.06	M
ATOM	22636	CA	LEU	M	98	152.419	16.619	105.804	1.00192.57	M
ATOM	22637	CB	LEU	M	98	152.627	15.504	106.849	1.00191.45	M
ATOM	22638	CG	LEU	M	98	152.491	15.773	108.356	1.00190.33	M
ATOM	22639	CD1	LEU	M	98	153.707	16.530	108.853	1.00189.56	M
ATOM	22640	CD2	LEU	M	98	151.208	16.534	108.647	1.00190.06	M
ATOM	22641	C	LEU	M	98	153.228	17.859	106.170	1.00193.10	M
ATOM	22642	O	LEU	M	98	152.715	18.781	106.804	1.00192.68	M
ATOM	22643	N	THR	M	99	154.493	17.880	105.770	1.00194.02	M
ATOM	22644	CA	THR	M	99	155.366	19.014	106.079	1.00194.92	M
ATOM	22645	CB	THR	M	99	156.822	18.560	106.339	1.00195.24	M
ATOM	22646	OG1	THR	M	99	157.460	18.274	105.088	1.00195.71	M
ATOM	22647	CG2	THR	M	99	156.836	17.297	107.171	1.00195.14	M
ATOM	22648	C	THR	M	99	155.401	20.007	104.920	1.00195.16	M
ATOM	22649	O	THR	M	99	156.440	20.601	104.633	1.00194.53	M
ATOM	22650	N	GLU	M	100	154.263	20.203	104.263	1.00196.00	M
ATOM	22651	CA	GLU	M	100	154.202	21.125	103.136	1.00196.76	M
ATOM	22652	CB	GLU	M	100	154.490	20.355	101.846	1.00196.28	M
ATOM	22653	CG	GLU	M	100	155.806	19.601	101.845	1.00194.93	M
ATOM	22654	CD	GLU	M	100	155.844	18.535	100.774	1.00194.19	M
ATOM	22655	OE1	GLU	M	100	155.656	18.879	99.589	1.00193.98	M
ATOM	22656	OE2	GLU	M	100	156.064	17.355	101.117	1.00193.46	M
ATOM	22657	C	GLU	M	100	152.886	21.897	102.993	1.00197.38	M
ATOM	22658	O	GLU	M	100	151.937	21.694	103.749	1.00197.48	M
ATOM	22659	N	ASN	M	101	152.863	22.774	101.991	1.00197.68	M
ATOM	22660	CA	ASN	M	101	151.716	23.614	101.667	1.00197.55	M
ATOM	22661	CB	ASN	M	101	152.191	25.014	101.261	1.00198.78	M
ATOM	22662	CG	ASN	M	101	152.875	25.751	102.400	1.00200.00	M
ATOM	22663	OD1	ASN	M	101	153.595	25.147	103.199	1.00200.00	M
ATOM	22664	ND2	ASN	M	101	152.668	27.064	102.472	1.00200.00	M
ATOM	22665	C	ASN	M	101	150.925	22.995	100.520	1.00196.78	M
ATOM	22666	O	ASN	M	101	151.203	23.260	99.345	1.00196.27	M
ATOM	22667	N	THR	M	102	149.935	22.174	100.860	1.00195.92	M
ATOM	22668	CA	THR	M	102	149.134	21.513	99.839	1.00194.31	M
ATOM	22669	CB	THR	M	102	149.162	19.982	100.032	1.00193.60	M
ATOM	22670	OG1	THR	M	102	148.467	19.633	101.236	1.00192.23	M
ATOM	22671	CG2	THR	M	102	150.595	19.493	100.132	1.00193.75	M
ATOM	22672	C	THR	M	102	147.680	21.971	99.784	1.00193.28	M
ATOM	22673	O	THR	M	102	147.187	22.656	100.683	1.00193.70	M
ATOM	22674	N	LEU	M	103	147.011	21.577	98.704	1.00191.34	M
ATOM	22675	CA	LEU	M	103	145.610	21.906	98.466	1.00189.23	M
ATOM	22676	CB	LEU	M	103	145.491	22.980	97.384	1.00188.54	M
ATOM	22677	CG	LEU	M	103	144.066	23.244	96.892	1.00187.58	M
ATOM	22678	CD1	LEU	M	103	143.235	23.872	98.001	1.00187.25	M
ATOM	22679	CD2	LEU	M	103	144.113	24.155	95.685	1.00186.78	M
ATOM	22680	C	LEU	M	103	144.842	20.671	98.010	1.00187.90	M
ATOM	22681	O	LEU	M	103	145.075	20.163	96.911	1.00187.93	M
ATOM	22682	N	GLN	M	104	143.926	20.193	98.850	1.00185.97	M
ATOM	22683	CA	GLN	M	104	143.120	19.022	98.513	1.00183.35	M
ATOM	22684	CB	GLN	M	104	143.174	17.979	99.637	1.00183.27	M
ATOM	22685	CG	GLN	M	104	144.305	16.963	99.497	1.00182.42	M
ATOM	22686	CD	GLN	M	104	144.129	15.761	100.410	1.00182.10	M
ATOM	22687	OE1	GLN	M	104	144.906	14.807	100.359	1.00181.57	M

ATOM	22688	NE2	GLN	M	104	143.102	15.803	101.251	1.00181.97	M
ATOM	22689	C	GLN	M	104	141.665	19.371	98.203	1.00180.78	M
ATOM	22690	O	GLN	M	104	141.034	20.161	98.905	1.00180.02	M
ATOM	22691	N	LEU	M	105	141.141	18.764	97.144	1.00178.00	M
ATOM	22692	CA	LEU	M	105	139.771	19.006	96.722	1.00175.55	M
ATOM	22693	CB	LEU	M	105	139.751	19.385	95.242	1.00174.70	M
ATOM	22694	CG	LEU	M	105	140.782	20.430	94.814	1.00174.26	M
ATOM	22695	CD1	LEU	M	105	140.627	20.702	93.327	1.00174.24	M
ATOM	22696	CD2	LEU	M	105	140.599	21.710	95.616	1.00175.05	M
ATOM	22697	C	LEU	M	105	138.888	17.784	96.944	1.00174.30	M
ATOM	22698	O	LEU	M	105	139.325	16.648	96.765	1.00174.26	M
ATOM	22699	N	ALA	M	106	137.643	18.028	97.339	1.00172.42	M
ATOM	22700	CA	ALA	M	106	136.682	16.958	97.570	1.00170.21	M
ATOM	22701	CB	ALA	M	106	136.161	17.013	99.003	1.00169.09	M
ATOM	22702	C	ALA	M	106	135.538	17.150	96.583	1.00168.88	M
ATOM	22703	O	ALA	M	106	134.520	17.760	96.913	1.00169.89	M
ATOM	22704	N	ILE	M	107	135.717	16.639	95.367	1.00166.43	M
ATOM	22705	CA	ILE	M	107	134.704	16.765	94.323	1.00164.06	M
ATOM	22706	CB	ILE	M	107	135.133	16.043	93.026	1.00163.18	M
ATOM	22707	CG2	ILE	M	107	134.114	16.303	91.925	1.00161.26	M
ATOM	22708	CG1	ILE	M	107	136.511	16.539	92.582	1.00162.39	M
ATOM	22709	CD1	ILE	M	107	136.573	18.022	92.298	1.00161.27	M
ATOM	22710	C	ILE	M	107	133.370	16.187	94.779	1.00162.93	M
ATOM	22711	O	ILE	M	107	133.305	15.065	95.286	1.00162.67	M
ATOM	22712	N	ILE	M	108	132.306	16.959	94.587	1.00161.31	M
ATOM	22713	CA	ILE	M	108	130.971	16.534	94.983	1.00159.77	M
ATOM	22714	CB	ILE	M	108	130.419	17.432	96.108	1.00160.66	M
ATOM	22715	CG2	ILE	M	108	129.086	16.882	96.606	1.00161.09	M
ATOM	22716	CG1	ILE	M	108	131.433	17.504	97.254	1.00161.60	M
ATOM	22717	CD1	ILE	M	108	131.056	18.470	98.366	1.00162.49	M
ATOM	22718	C	ILE	M	108	130.020	16.605	93.798	1.00158.37	M
ATOM	22719	O	ILE	M	108	130.164	17.456	92.921	1.00157.62	M
ATOM	22720	N	SER	M	109	129.051	15.699	93.771	1.00157.63	M
ATOM	22721	CA	SER	M	109	128.072	15.677	92.694	1.00157.19	M
ATOM	22722	CB	SER	M	109	128.094	14.329	91.968	1.00158.55	M
ATOM	22723	OG	SER	M	109	129.250	14.203	91.157	1.00158.80	M
ATOM	22724	C	SER	M	109	126.675	15.951	93.230	1.00155.68	M
ATOM	22725	O	SER	M	109	126.232	15.335	94.202	1.00154.98	M
ATOM	22726	N	ARG	M	110	125.992	16.893	92.592	1.00153.88	M
ATOM	22727	CA	ARG	M	110	124.644	17.266	92.985	1.00151.96	M
ATOM	22728	CB	ARG	M	110	124.619	18.717	93.479	1.00151.82	M
ATOM	22729	CG	ARG	M	110	123.267	19.383	93.326	1.00151.25	M
ATOM	22730	CD	ARG	M	110	123.185	20.736	94.008	1.00151.29	M
ATOM	22731	NE	ARG	M	110	123.084	20.607	95.457	1.00150.77	M
ATOM	22732	CZ	ARG	M	110	122.623	21.564	96.256	1.00150.57	M
ATOM	22733	NH1	ARG	M	110	122.218	22.723	95.745	1.00148.88	M
ATOM	22734	NH2	ARG	M	110	122.564	21.364	97.567	1.00150.13	M
ATOM	22735	C	ARG	M	110	123.672	17.088	91.821	1.00150.23	M
ATOM	22736	O	ARG	M	110	123.852	17.669	90.746	1.00149.96	M
ATOM	22737	N	ILE	M	111	122.647	16.270	92.043	1.00147.97	M
ATOM	22738	CA	ILE	M	111	121.639	16.010	91.024	1.00145.48	M
ATOM	22739	CB	ILE	M	111	121.826	14.615	90.378	1.00145.65	M
ATOM	22740	CG2	ILE	M	111	123.229	14.507	89.801	1.00146.78	M
ATOM	22741	CG1	ILE	M	111	121.589	13.505	91.405	1.00144.40	M
ATOM	22742	CD1	ILE	M	111	121.633	12.107	90.814	1.00139.18	M
ATOM	22743	C	ILE	M	111	120.235	16.106	91.606	1.00142.58	M
ATOM	22744	O	ILE	M	111	120.013	15.811	92.782	1.00141.34	M
ATOM	22745	N	LYS	M	112	119.293	16.516	90.766	1.00140.05	M

ATOM	22746	CA	LYS	M	112	117.905	16.682	91.173	1.00137.93	M
ATOM	22747	CB	LYS	M	112	117.108	17.315	90.035	1.00135.91	M
ATOM	22748	CG	LYS	M	112	117.721	18.601	89.514	1.00134.03	M
ATOM	22749	CD	LYS	M	112	116.987	19.108	88.292	1.00131.62	M
ATOM	22750	CE	LYS	M	112	117.686	20.319	87.704	1.00130.64	M
ATOM	22751	NZ	LYS	M	112	117.062	20.748	86.421	1.00130.48	M
ATOM	22752	C	LYS	M	112	117.236	15.381	91.594	1.00137.37	M
ATOM	22753	O	LYS	M	112	117.444	14.338	90.985	1.00137.25	M
ATOM	22754	N	LEU	M	113	116.430	15.465	92.646	1.00137.37	M
ATOM	22755	CA	LEU	M	113	115.690	14.326	93.176	1.00137.73	M
ATOM	22756	CB	LEU	M	113	116.273	13.899	94.524	1.00135.33	M
ATOM	22757	CG	LEU	M	113	115.419	13.028	95.448	1.00132.51	M
ATOM	22758	CD1	LEU	M	113	114.894	11.805	94.719	1.00131.98	M
ATOM	22759	CD2	LEU	M	113	116.270	12.613	96.632	1.00132.45	M
ATOM	22760	C	LEU	M	113	114.242	14.759	93.345	1.00139.18	M
ATOM	22761	O	LEU	M	113	113.923	15.552	94.228	1.00139.99	M
ATOM	22762	N	TYR	M	114	113.366	14.233	92.498	1.00141.17	M
ATOM	22763	CA	TYR	M	114	111.959	14.604	92.544	1.00143.85	M
ATOM	22764	CB	TYR	M	114	111.419	14.759	91.124	1.00144.88	M
ATOM	22765	CG	TYR	M	114	112.063	15.880	90.361	1.00145.95	M
ATOM	22766	CD1	TYR	M	114	112.769	15.631	89.189	1.00146.47	M
ATOM	22767	CE1	TYR	M	114	113.377	16.662	88.485	1.00148.28	M
ATOM	22768	CD2	TYR	M	114	111.976	17.194	90.817	1.00147.23	M
ATOM	22769	CE2	TYR	M	114	112.577	18.233	90.122	1.00148.86	M
ATOM	22770	CZ	TYR	M	114	113.277	17.961	88.955	1.00148.92	M
ATOM	22771	OH	TYR	M	114	113.873	18.988	88.254	1.00149.39	M
ATOM	22772	C	TYR	M	114	111.033	13.678	93.310	1.00144.96	M
ATOM	22773	O	TYR	M	114	110.942	12.486	93.018	1.00144.46	M
ATOM	22774	N	TYR	M	115	110.338	14.242	94.292	1.00147.26	M
ATOM	22775	CA	TYR	M	115	109.375	13.480	95.070	1.00150.39	M
ATOM	22776	CB	TYR	M	115	109.156	14.107	96.448	1.00150.54	M
ATOM	22777	CG	TYR	M	115	108.147	13.361	97.297	1.00151.14	M
ATOM	22778	CD1	TYR	M	115	108.396	12.049	97.720	1.00152.04	M
ATOM	22779	CE1	TYR	M	115	107.472	11.351	98.499	1.00152.60	M
ATOM	22780	CD2	TYR	M	115	106.940	13.962	97.675	1.00150.65	M
ATOM	22781	CE2	TYR	M	115	106.007	13.276	98.454	1.00150.99	M
ATOM	22782	CZ	TYR	M	115	106.280	11.971	98.862	1.00152.16	M
ATOM	22783	OH	TYR	M	115	105.368	11.290	99.635	1.00150.90	M
ATOM	22784	C	TYR	M	115	108.084	13.548	94.269	1.00152.43	M
ATOM	22785	O	TYR	M	115	107.240	14.410	94.510	1.00151.44	M
ATOM	22786	N	ARG	M	116	107.951	12.646	93.302	1.00156.18	M
ATOM	22787	CA	ARG	M	116	106.775	12.590	92.439	1.00159.49	M
ATOM	22788	CB	ARG	M	116	107.176	12.067	91.061	1.00160.16	M
ATOM	22789	CG	ARG	M	116	106.033	11.950	90.070	1.00162.25	M
ATOM	22790	CD	ARG	M	116	106.525	11.338	88.766	1.00165.08	M
ATOM	22791	NE	ARG	M	116	107.585	12.140	88.162	1.00166.56	M
ATOM	22792	CZ	ARG	M	116	108.297	11.763	87.104	1.00166.09	M
ATOM	22793	NH1	ARG	M	116	108.065	10.588	86.529	1.00164.75	M
ATOM	22794	NH2	ARG	M	116	109.242	12.562	86.620	1.00166.04	M
ATOM	22795	C	ARG	M	116	105.673	11.705	93.022	1.00161.63	M
ATOM	22796	O	ARG	M	116	105.761	10.475	92.974	1.00162.02	M
ATOM	22797	N	PRO	M	117	104.615	12.323	93.576	1.00162.92	M
ATOM	22798	CD	PRO	M	117	104.424	13.777	93.711	1.00163.09	M
ATOM	22799	CA	PRO	M	117	103.488	11.601	94.172	1.00163.29	M
ATOM	22800	CB	PRO	M	117	102.490	12.715	94.471	1.00163.05	M
ATOM	22801	CG	PRO	M	117	103.382	13.861	94.801	1.00162.66	M
ATOM	22802	C	PRO	M	117	102.914	10.553	93.227	1.00163.72	M
ATOM	22803	O	PRO	M	117	102.284	10.892	92.226	1.00163.84	M

ATOM	22804	N	ALA	M	118	103.140	9.283	93.546	1.00163.65	M
ATOM	22805	CA	ALA	M	118	102.635	8.192	92.726	1.00163.56	M
ATOM	22806	CB	ALA	M	118	103.204	6.865	93.218	1.00162.36	M
ATOM	22807	C	ALA	M	118	101.110	8.182	92.803	1.00164.30	M
ATOM	22808	O	ALA	M	118	100.522	7.349	93.488	1.00164.18	M
ATOM	22809	N	LYS	M	119	100.484	9.125	92.099	1.00165.85	M
ATOM	22810	CA	LYS	M	119	99.027	9.262	92.072	1.00167.17	M
ATOM	22811	CB	LYS	M	119	98.498	9.539	93.485	1.00167.64	M
ATOM	22812	CG	LYS	M	119	97.027	9.210	93.696	1.00167.88	M
ATOM	22813	CD	LYS	M	119	96.811	7.706	93.694	1.00168.09	M
ATOM	22814	CE	LYS	M	119	95.393	7.340	94.091	1.00168.69	M
ATOM	22815	NZ	LYS	M	119	95.223	5.864	94.217	1.00169.57	M
ATOM	22816	C	LYS	M	119	98.660	10.434	91.157	1.00167.72	M
ATOM	22817	O	LYS	M	119	97.551	10.965	91.229	1.00167.97	M
ATOM	22818	N	LEU	M	120	99.601	10.828	90.301	1.00167.76	M
ATOM	22819	CA	LEU	M	120	99.407	11.948	89.384	1.00167.78	M
ATOM	22820	CB	LEU	M	120	100.755	12.619	89.096	1.00166.94	M
ATOM	22821	CG	LEU	M	120	101.557	13.072	90.323	1.00166.69	M
ATOM	22822	CD1	LEU	M	120	102.870	13.694	89.874	1.00166.41	M
ATOM	22823	CD2	LEU	M	120	100.746	14.071	91.141	1.00166.18	M
ATOM	22824	C	LEU	M	120	98.740	11.539	88.072	1.00168.20	M
ATOM	22825	O	LEU	M	120	99.035	10.480	87.512	1.00168.25	M
ATOM	22826	N	ALA	M	121	97.838	12.392	87.592	1.00168.67	M
ATOM	22827	CA	ALA	M	121	97.108	12.145	86.353	1.00169.04	M
ATOM	22828	CB	ALA	M	121	95.943	13.122	86.233	1.00169.00	M
ATOM	22829	C	ALA	M	121	98.021	12.270	85.138	1.00169.45	M
ATOM	22830	O	ALA	M	121	98.563	11.275	84.651	1.00169.52	M
ATOM	22831	N	LEU	M	122	98.176	13.497	84.647	1.00169.27	M
ATOM	22832	CA	LEU	M	122	99.023	13.767	83.492	1.00169.57	M
ATOM	22833	CB	LEU	M	122	99.269	15.274	83.373	1.00168.91	M
ATOM	22834	CG	LEU	M	122	100.380	15.709	82.416	1.00168.50	M
ATOM	22835	CD1	LEU	M	122	100.089	15.188	81.026	1.00168.13	M
ATOM	22836	CD2	LEU	M	122	100.486	17.220	82.407	1.00168.45	M
ATOM	22837	C	LEU	M	122	100.364	13.038	83.585	1.00170.32	M
ATOM	22838	O	LEU	M	122	101.218	13.405	84.393	1.00170.67	M
ATOM	22839	N	PRO	M	123	100.566	11.995	82.759	1.00170.58	M
ATOM	22840	CD	PRO	M	123	99.706	11.520	81.661	1.00170.64	M
ATOM	22841	CA	PRO	M	123	101.829	11.250	82.789	1.00170.73	M
ATOM	22842	CB	PRO	M	123	101.620	10.179	81.720	1.00170.25	M
ATOM	22843	CG	PRO	M	123	100.705	10.850	80.748	1.00169.87	M
ATOM	22844	C	PRO	M	123	103.021	12.169	82.493	1.00171.07	M
ATOM	22845	O	PRO	M	123	102.914	13.103	81.693	1.00171.09	M
ATOM	22846	N	PRO	M	124	104.177	11.906	83.129	1.00170.72	M
ATOM	22847	CD	PRO	M	124	104.478	10.681	83.891	1.00170.09	M
ATOM	22848	CA	PRO	M	124	105.392	12.711	82.946	1.00169.98	M
ATOM	22849	CB	PRO	M	124	106.472	11.874	83.641	1.00169.50	M
ATOM	22850	CG	PRO	M	124	105.931	10.476	83.580	1.00169.43	M
ATOM	22851	C	PRO	M	124	105.767	13.078	81.507	1.00169.65	M
ATOM	22852	O	PRO	M	124	106.153	14.215	81.230	1.00168.81	M
ATOM	22853	N	ASP	M	125	105.646	12.117	80.599	1.00170.24	M
ATOM	22854	CA	ASP	M	125	105.985	12.332	79.194	1.00170.83	M
ATOM	22855	CB	ASP	M	125	105.865	11.012	78.428	1.00172.07	M
ATOM	22856	CG	ASP	M	125	104.500	10.365	78.591	1.00173.62	M
ATOM	22857	OD1	ASP	M	125	103.488	11.005	78.233	1.00175.11	M
ATOM	22858	OD2	ASP	M	125	104.440	9.215	79.075	1.00174.30	M
ATOM	22859	C	ASP	M	125	105.131	13.394	78.503	1.00170.73	M
ATOM	22860	O	ASP	M	125	105.602	14.092	77.604	1.00170.35	M
ATOM	22861	N	GLN	M	126	103.877	13.511	78.926	1.00170.99	M

ATOM	22862	CA	GLN	M	126	102.944	14.467	78.339	1.00170.91	M
ATOM	22863	CB	GLN	M	126	101.536	13.866	78.373	1.00170.80	M
ATOM	22864	CG	GLN	M	126	100.476	14.630	77.600	1.00170.53	M
ATOM	22865	CD	GLN	M	126	99.131	13.921	77.613	1.00170.10	M
ATOM	22866	OE1	GLN	M	126	98.138	14.437	77.098	1.00169.57	M
ATOM	22867	NE2	GLN	M	126	99.094	12.730	78.204	1.00169.53	M
ATOM	22868	C	GLN	M	126	102.972	15.810	79.073	1.00170.79	M
ATOM	22869	O	GLN	M	126	101.968	16.523	79.134	1.00169.89	M
ATOM	22870	N	ALA	M	127	104.137	16.158	79.611	1.00171.31	M
ATOM	22871	CA	ALA	M	127	104.294	17.401	80.356	1.00171.64	M
ATOM	22872	CB	ALA	M	127	105.087	17.134	81.632	1.00170.81	M
ATOM	22873	C	ALA	M	127	104.944	18.545	79.573	1.00171.88	M
ATOM	22874	O	ALA	M	127	104.498	19.689	79.661	1.00172.54	M
ATOM	22875	N	ALA	M	128	105.992	18.238	78.813	1.00171.80	M
ATOM	22876	CA	ALA	M	128	106.711	19.254	78.039	1.00171.19	M
ATOM	22877	CB	ALA	M	128	107.897	18.614	77.318	1.00170.88	M
ATOM	22878	C	ALA	M	128	105.859	20.042	77.038	1.00171.18	M
ATOM	22879	O	ALA	M	128	106.196	21.179	76.704	1.00171.05	M
ATOM	22880	N	GLU	M	129	104.766	19.450	76.559	1.00171.37	M
ATOM	22881	CA	GLU	M	129	103.899	20.131	75.596	1.00170.81	M
ATOM	22882	CB	GLU	M	129	102.931	19.148	74.928	1.00170.24	M
ATOM	22883	CG	GLU	M	129	103.454	17.734	74.753	1.00168.93	M
ATOM	22884	CD	GLU	M	129	102.862	16.770	75.766	1.00168.72	M
ATOM	22885	OE1	GLU	M	129	103.191	15.569	75.701	1.00169.13	M
ATOM	22886	OE2	GLU	M	129	102.065	17.213	76.623	1.00167.54	M
ATOM	22887	C	GLU	M	129	103.078	21.201	76.309	1.00170.97	M
ATOM	22888	O	GLU	M	129	102.855	22.294	75.780	1.00170.80	M
ATOM	22889	N	LYS	M	130	102.633	20.864	77.516	1.00171.22	M
ATOM	22890	CA	LYS	M	130	101.823	21.750	78.344	1.00171.10	M
ATOM	22891	CB	LYS	M	130	101.431	21.026	79.635	1.00170.08	M
ATOM	22892	CG	LYS	M	130	101.008	19.577	79.435	1.00167.47	M
ATOM	22893	CD	LYS	M	130	99.824	19.474	78.494	1.00165.74	M
ATOM	22894	CE	LYS	M	130	99.460	18.030	78.228	1.00164.71	M
ATOM	22895	NZ	LYS	M	130	98.316	17.936	77.287	1.00164.36	M
ATOM	22896	C	LYS	M	130	102.541	23.051	78.697	1.00171.35	M
ATOM	22897	O	LYS	M	130	101.998	23.890	79.412	1.00171.39	M
ATOM	22898	N	LEU	M	131	103.760	23.215	78.199	1.00171.89	M
ATOM	22899	CA	LEU	M	131	104.532	24.415	78.484	1.00172.68	M
ATOM	22900	CB	LEU	M	131	106.030	24.118	78.358	1.00172.16	M
ATOM	22901	CG	LEU	M	131	107.020	25.209	78.780	1.00171.19	M
ATOM	22902	CD1	LEU	M	131	106.815	25.563	80.247	1.00171.13	M
ATOM	22903	CD2	LEU	M	131	108.441	24.713	78.556	1.00170.76	M
ATOM	22904	C	LEU	M	131	104.151	25.560	77.553	1.00173.78	M
ATOM	22905	O	LEU	M	131	104.447	25.532	76.357	1.00174.25	M
ATOM	22906	N	ARG	M	132	103.478	26.560	78.114	1.00174.67	M
ATOM	22907	CA	ARG	M	132	103.062	27.738	77.361	1.00175.23	M
ATOM	22908	CB	ARG	M	132	101.644	28.152	77.764	1.00174.68	M
ATOM	22909	CG	ARG	M	132	100.617	27.023	77.715	1.00173.46	M
ATOM	22910	CD	ARG	M	132	99.374	27.396	78.528	1.00172.38	M
ATOM	22911	NE	ARG	M	132	98.529	26.243	78.826	1.00170.19	M
ATOM	22912	CZ	ARG	M	132	97.552	26.247	79.731	1.00168.61	M
ATOM	22913	NH1	ARG	M	132	97.295	27.347	80.430	1.00167.14	M
ATOM	22914	NH2	ARG	M	132	96.837	25.149	79.941	1.00167.99	M
ATOM	22915	C	ARG	M	132	104.058	28.834	77.730	1.00176.17	M
ATOM	22916	O	ARG	M	132	105.016	28.573	78.457	1.00175.95	M
ATOM	22917	N	PHE	M	133	103.845	30.054	77.243	1.00178.03	M
ATOM	22918	CA	PHE	M	133	104.770	31.147	77.545	1.00179.66	M
ATOM	22919	CB	PHE	M	133	105.786	31.314	76.406	1.00181.88	M

ATOM	22920	CG	PHE	M	133	106.646	30.105	76.168	1.00183.58	M
ATOM	22921	CD1	PHE	M	133	106.119	28.962	75.572	1.00183.76	M
ATOM	22922	CD2	PHE	M	133	107.985	30.106	76.545	1.00184.27	M
ATOM	22923	CE1	PHE	M	133	106.912	27.841	75.356	1.00184.04	M
ATOM	22924	CE2	PHE	M	133	108.787	28.989	76.331	1.00184.43	M
ATOM	22925	CZ	PHE	M	133	108.247	27.854	75.736	1.00184.31	M
ATOM	22926	C	PHE	M	133	104.121	32.505	77.814	1.00179.37	M
ATOM	22927	O	PHE	M	133	102.952	32.601	78.182	1.00179.82	M
ATOM	22928	N	ARG	M	134	104.922	33.549	77.624	1.00178.26	M
ATOM	22929	CA	ARG	M	134	104.519	34.939	77.814	1.00177.44	M
ATOM	22930	CB	ARG	M	134	104.243	35.233	79.283	1.00174.48	M
ATOM	22931	CG	ARG	M	134	103.911	36.688	79.561	1.00170.22	M
ATOM	22932	CD	ARG	M	134	103.899	36.947	81.048	1.00167.46	M
ATOM	22933	NE	ARG	M	134	103.071	35.965	81.736	1.00165.53	M
ATOM	22934	CZ	ARG	M	134	103.013	35.833	83.056	1.00164.18	M
ATOM	22935	NH1	ARG	M	134	103.738	36.625	83.837	1.00162.52	M
ATOM	22936	NH2	ARG	M	134	102.233	34.907	83.597	1.00162.92	M
ATOM	22937	C	ARG	M	134	105.725	35.741	77.366	1.00178.56	M
ATOM	22938	O	ARG	M	134	106.500	36.229	78.190	1.00178.45	M
ATOM	22939	N	ARG	M	135	105.878	35.873	76.055	1.00180.51	M
ATOM	22940	CA	ARG	M	135	107.022	36.574	75.496	1.00182.26	M
ATOM	22941	CB	ARG	M	135	107.391	35.937	74.149	1.00183.27	M
ATOM	22942	CG	ARG	M	135	106.548	36.359	72.952	1.00183.89	M
ATOM	22943	CD	ARG	M	135	107.369	37.318	72.117	1.00184.22	M
ATOM	22944	NE	ARG	M	135	108.717	36.782	71.990	1.00184.14	M
ATOM	22945	CZ	ARG	M	135	109.810	37.513	71.813	1.00183.78	M
ATOM	22946	NH1	ARG	M	135	110.987	36.909	71.719	1.00183.67	M
ATOM	22947	NH2	ARG	M	135	109.734	38.837	71.735	1.00183.08	M
ATOM	22948	C	ARG	M	135	106.865	38.088	75.354	1.00182.82	M
ATOM	22949	O	ARG	M	135	106.018	38.572	74.603	1.00183.28	M
ATOM	22950	N	SER	M	136	107.692	38.824	76.095	1.00182.94	M
ATOM	22951	CA	SER	M	136	107.690	40.286	76.066	1.00183.35	M
ATOM	22952	CB	SER	M	136	107.906	40.852	77.477	1.00182.31	M
ATOM	22953	OG	SER	M	136	106.867	40.471	78.363	1.00181.01	M
ATOM	22954	C	SER	M	136	108.821	40.761	75.152	1.00183.87	M
ATOM	22955	O	SER	M	136	109.003	40.243	74.047	1.00184.13	M
ATOM	22956	N	ALA	M	137	109.576	41.749	75.618	1.00184.02	M
ATOM	22957	CA	ALA	M	137	110.700	42.284	74.862	1.00184.04	M
ATOM	22958	CB	ALA	M	137	110.451	43.742	74.503	1.00184.02	M
ATOM	22959	C	ALA	M	137	111.928	42.160	75.754	1.00184.01	M
ATOM	22960	O	ALA	M	137	113.051	42.467	75.348	1.00184.27	M
ATOM	22961	N	ASN	M	138	111.687	41.704	76.981	1.00183.66	M
ATOM	22962	CA	ASN	M	138	112.736	41.511	77.975	1.00182.80	M
ATOM	22963	CB	ASN	M	138	113.251	42.869	78.481	1.00184.17	M
ATOM	22964	CG	ASN	M	138	112.154	43.729	79.107	1.00185.91	M
ATOM	22965	OD1	ASN	M	138	111.442	43.298	80.020	1.00187.17	M
ATOM	22966	ND2	ASN	M	138	112.026	44.960	78.622	1.00186.17	M
ATOM	22967	C	ASN	M	138	112.257	40.666	79.160	1.00181.29	M
ATOM	22968	O	ASN	M	138	113.037	40.356	80.062	1.00181.27	M
ATOM	22969	N	SER	M	139	110.982	40.286	79.157	1.00179.09	M
ATOM	22970	CA	SER	M	139	110.432	39.495	80.253	1.00176.98	M
ATOM	22971	CB	SER	M	139	109.526	40.374	81.122	1.00175.27	M
ATOM	22972	OG	SER	M	139	110.258	41.436	81.705	1.00171.87	M
ATOM	22973	C	SER	M	139	109.659	38.256	79.804	1.00176.77	M
ATOM	22974	O	SER	M	139	108.473	38.117	80.103	1.00177.03	M
ATOM	22975	N	LEU	M	140	110.331	37.357	79.090	1.00176.12	M
ATOM	22976	CA	LEU	M	140	109.692	36.126	78.626	1.00175.34	M
ATOM	22977	CB	LEU	M	140	110.638	35.352	77.699	1.00175.45	M

ATOM	22978	CG	LEU	M	140	110.082	34.151	76.924	1.00175.32	M
ATOM	22979	CD1	LEU	M	140	111.117	33.688	75.909	1.00174.80	M
ATOM	22980	CD2	LEU	M	140	109.721	33.022	77.880	1.00175.41	M
ATOM	22981	C	LEU	M	140	109.362	35.297	79.864	1.00174.45	M
ATOM	22982	O	LEU	M	140	110.211	35.110	80.733	1.00174.57	M
ATOM	22983	N	THR	M	141	108.133	34.798	79.943	1.00173.50	M
ATOM	22984	CA	THR	M	141	107.713	34.023	81.104	1.00172.55	M
ATOM	22985	CB	THR	M	141	106.464	34.652	81.758	1.00172.71	M
ATOM	22986	OG1	THR	M	141	106.715	36.034	82.038	1.00173.00	M
ATOM	22987	CG2	THR	M	141	106.115	33.927	83.053	1.00171.88	M
ATOM	22988	C	THR	M	141	107.409	32.554	80.820	1.00172.01	M
ATOM	22989	O	THR	M	141	106.387	32.223	80.214	1.00172.10	M
ATOM	22990	N	LEU	M	142	108.303	31.679	81.271	1.00171.10	M
ATOM	22991	CA	LEU	M	142	108.126	30.240	81.105	1.00170.05	M
ATOM	22992	CB	LEU	M	142	109.433	29.494	81.411	1.00170.75	M
ATOM	22993	CG	LEU	M	142	110.649	29.662	80.489	1.00171.05	M
ATOM	22994	CD1	LEU	M	142	110.367	29.008	79.152	1.00171.20	M
ATOM	22995	CD2	LEU	M	142	110.984	31.136	80.309	1.00171.14	M
ATOM	22996	C	LEU	M	142	107.051	29.823	82.105	1.00168.69	M
ATOM	22997	O	LEU	M	142	107.185	30.067	83.303	1.00167.24	M
ATOM	22998	N	ILE	M	143	105.984	29.201	81.615	1.00167.98	M
ATOM	22999	CA	ILE	M	143	104.892	28.776	82.484	1.00166.78	M
ATOM	23000	CB	ILE	M	143	103.626	29.651	82.231	1.00167.11	M
ATOM	23001	CG2	ILE	M	143	103.441	29.889	80.741	1.00167.09	M
ATOM	23002	CD1	ILE	M	143	102.386	28.995	82.849	1.00167.31	M
ATOM	23003	CG1	ILE	M	143	102.393	28.949	84.366	1.00166.98	M
ATOM	23004	C	ILE	M	143	104.540	27.291	82.341	1.00165.12	M
ATOM	23005	O	ILE	M	143	104.252	26.804	81.247	1.00164.76	M
ATOM	23006	N	ASN	M	144	104.568	26.582	83.465	1.00163.33	M
ATOM	23007	CA	ASN	M	144	104.255	25.160	83.496	1.00161.86	M
ATOM	23008	CB	ASN	M	144	105.486	24.361	83.925	1.00162.24	M
ATOM	23009	CG	ASN	M	144	105.135	22.974	84.421	1.00162.36	M
ATOM	23010	OD1	ASN	M	144	104.422	22.226	83.753	1.00161.71	M
ATOM	23011	ND2	ASN	M	144	105.638	22.623	85.598	1.00161.60	M
ATOM	23012	C	ASN	M	144	103.093	24.852	84.436	1.00160.90	M
ATOM	23013	O	ASN	M	144	103.192	25.047	85.647	1.00159.85	M
ATOM	23014	N	PRO	M	145	101.970	24.372	83.879	1.00160.83	M
ATOM	23015	CD	PRO	M	145	101.677	24.407	82.435	1.00161.04	M
ATOM	23016	CA	PRO	M	145	100.764	24.022	84.633	1.00160.92	M
ATOM	23017	CB	PRO	M	145	99.655	24.344	83.646	1.00160.80	M
ATOM	23018	CG	PRO	M	145	100.252	23.868	82.370	1.00160.90	M
ATOM	23019	C	PRO	M	145	100.730	22.555	85.072	1.00160.78	M
ATOM	23020	O	PRO	M	145	99.770	22.113	85.701	1.00160.47	M
ATOM	23021	N	THR	M	146	101.766	21.799	84.729	1.00160.53	M
ATOM	23022	CA	THR	M	146	101.825	20.392	85.108	1.00160.60	M
ATOM	23023	CB	THR	M	146	102.700	19.584	84.132	1.00161.32	M
ATOM	23024	OG1	THR	M	146	104.082	19.902	84.345	1.00162.35	M
ATOM	23025	CG2	THR	M	146	102.333	19.916	82.696	1.00161.89	M
ATOM	23026	C	THR	M	146	102.433	20.283	86.503	1.00160.58	M
ATOM	23027	O	THR	M	146	103.033	21.235	87.001	1.00161.32	M
ATOM	23028	N	PRO	M	147	102.280	19.121	87.156	1.00159.86	M
ATOM	23029	CD	PRO	M	147	101.388	18.007	86.787	1.00159.22	M
ATOM	23030	CA	PRO	M	147	102.831	18.921	88.500	1.00159.21	M
ATOM	23031	CB	PRO	M	147	101.934	17.832	89.067	1.00159.47	M
ATOM	23032	CG	PRO	M	147	101.683	16.982	87.864	1.00159.31	M
ATOM	23033	C	PRO	M	147	104.307	18.513	88.522	1.00159.17	M
ATOM	23034	O	PRO	M	147	104.805	18.037	89.544	1.00158.58	M
ATOM	23035	N	TYR	M	148	105.001	18.701	87.401	1.00159.97	M

ATOM	23036	CA	TYR	M	148	106.417	18.334	87.299	1.00160.16	M
ATOM	23037	CB	TYR	M	148	106.642	17.319	86.166	1.00161.83	M
ATOM	23038	CG	TYR	M	148	105.765	16.085	86.188	1.00163.31	M
ATOM	23039	CD1	TYR	M	148	104.457	16.124	85.701	1.00163.73	M
ATOM	23040	CE1	TYR	M	148	103.655	14.983	85.698	1.00164.53	M
ATOM	23041	CD2	TYR	M	148	106.251	14.871	86.677	1.00163.72	M
ATOM	23042	CE2	TYR	M	148	105.459	13.725	86.679	1.00164.17	M
ATOM	23043	CZ	TYR	M	148	104.164	13.787	86.189	1.00164.73	M
ATOM	23044	OH	TYR	M	148	103.385	12.651	86.194	1.00165.72	M
ATOM	23045	C	TYR	M	148	107.348	19.521	87.041	1.00158.72	M
ATOM	23046	O	TYR	M	148	106.962	20.495	86.390	1.00157.97	M
ATOM	23047	N	TYR	M	149	108.579	19.429	87.546	1.00156.96	M
ATOM	23048	CA	TYR	M	149	109.574	20.478	87.327	1.00155.30	M
ATOM	23049	CB	TYR	M	149	110.731	20.388	88.329	1.00151.03	M
ATOM	23050	CG	TYR	M	149	110.486	20.987	89.697	1.00145.87	M
ATOM	23051	CD1	TYR	M	149	109.896	20.241	90.714	1.00145.22	M
ATOM	23052	CE1	TYR	M	149	109.704	20.780	91.987	1.00142.84	M
ATOM	23053	CD2	TYR	M	149	110.876	22.294	89.983	1.00143.31	M
ATOM	23054	CE2	TYR	M	149	110.688	22.843	91.250	1.00141.38	M
ATOM	23055	CZ	TYR	M	149	110.102	22.080	92.249	1.00141.83	M
ATOM	23056	OH	TYR	M	149	109.912	22.605	93.509	1.00138.74	M
ATOM	23057	C	TYR	M	149	110.139	20.257	85.930	1.00156.58	M
ATOM	23058	O	TYR	M	149	110.925	19.334	85.718	1.00157.08	M
ATOM	23059	N	LEU	M	150	109.739	21.097	84.982	1.00158.18	M
ATOM	23060	CA	LEU	M	150	110.219	20.969	83.610	1.00159.28	M
ATOM	23061	CB	LEU	M	150	109.254	21.661	82.642	1.00159.56	M
ATOM	23062	CG	LEU	M	150	107.780	21.253	82.675	1.00159.18	M
ATOM	23063	CD1	LEU	M	150	107.019	22.066	81.638	1.00158.81	M
ATOM	23064	CD2	LEU	M	150	107.638	19.765	82.401	1.00158.84	M
ATOM	23065	C	LEU	M	150	111.606	21.587	83.466	1.00160.01	M
ATOM	23066	O	LEU	M	150	111.769	22.799	83.606	1.00160.11	M
ATOM	23067	N	THR	M	151	112.603	20.754	83.187	1.00160.64	M
ATOM	23068	CA	THR	M	151	113.965	21.241	83.023	1.00161.04	M
ATOM	23069	CB	THR	M	151	114.987	20.124	83.324	1.00160.24	M
ATOM	23070	OG1	THR	M	151	114.693	19.537	84.599	1.00158.03	M
ATOM	23071	CG2	THR	M	151	116.396	20.689	83.358	1.00159.52	M
ATOM	23072	C	THR	M	151	114.159	21.740	81.590	1.00162.07	M
ATOM	23073	O	THR	M	151	114.698	21.025	80.743	1.00162.39	M
ATOM	23074	N	VAL	M	152	113.708	22.968	81.332	1.00162.45	M
ATOM	23075	CA	VAL	M	152	113.806	23.590	80.010	1.00162.06	M
ATOM	23076	CB	VAL	M	152	112.934	24.871	79.934	1.00160.42	M
ATOM	23077	CG1	VAL	M	152	113.146	25.573	78.601	1.00159.55	M
ATOM	23078	CG2	VAL	M	152	111.467	24.514	80.112	1.00158.89	M
ATOM	23079	C	VAL	M	152	115.238	23.951	79.617	1.00162.96	M
ATOM	23080	O	VAL	M	152	115.935	24.661	80.341	1.00162.45	M
ATOM	23081	N	THR	M	153	115.664	23.456	78.459	1.00164.11	M
ATOM	23082	CA	THR	M	153	117.004	23.719	77.959	1.00165.22	M
ATOM	23083	CB	THR	M	153	117.926	22.502	78.168	1.00165.35	M
ATOM	23084	OG1	THR	M	153	119.211	22.771	77.595	1.00166.14	M
ATOM	23085	CG2	THR	M	153	117.334	21.269	77.513	1.00164.92	M
ATOM	23086	C	THR	M	153	116.982	24.069	76.474	1.00166.06	M
ATOM	23087	O	THR	M	153	115.966	23.896	75.796	1.00165.51	M
ATOM	23088	N	GLU	M	154	118.116	24.561	75.982	1.00167.64	M
ATOM	23089	CA	GLU	M	154	118.265	24.955	74.585	1.00169.60	M
ATOM	23090	CB	GLU	M	154	118.321	23.717	73.690	1.00169.68	M
ATOM	23091	CG	GLU	M	154	119.341	22.678	74.139	1.00169.16	M
ATOM	23092	CD	GLU	M	154	119.520	21.557	73.133	1.00169.62	M
ATOM	23093	OE1	GLU	M	154	120.153	20.535	73.476	1.00168.97	M

ATOM	23094	OE2	GLU	M	154	119.034	21.705	71.992	1.00170.41	M
ATOM	23095	C	GLU	M	154	117.116	25.864	74.150	1.00171.43	M
ATOM	23096	O	GLU	M	154	116.596	25.741	73.039	1.00171.57	M
ATOM	23097	N	LEU	M	155	116.724	26.772	75.041	1.00173.17	M
ATOM	23098	CA	LEU	M	155	115.642	27.716	74.770	1.00174.48	M
ATOM	23099	CB	LEU	M	155	115.224	28.422	76.066	1.00175.68	M
ATOM	23100	CG	LEU	M	155	113.999	29.342	76.034	1.00176.29	M
ATOM	23101	CD1	LEU	M	155	112.770	28.561	75.587	1.00177.00	M
ATOM	23102	CD2	LEU	M	155	113.773	29.934	77.418	1.00176.38	M
ATOM	23103	C	LEU	M	155	116.116	28.742	73.744	1.00174.63	M
ATOM	23104	O	LEU	M	155	117.243	29.229	73.822	1.00174.33	M
ATOM	23105	N	ASN	M	156	115.256	29.068	72.784	1.00175.22	M
ATOM	23106	CA	ASN	M	156	115.619	30.024	71.744	1.00176.15	M
ATOM	23107	CB	ASN	M	156	116.107	29.277	70.501	1.00175.16	M
ATOM	23108	CG	ASN	M	156	117.131	28.209	70.828	1.00174.26	M
ATOM	23109	OD1	ASN	M	156	118.200	28.498	71.366	1.00173.65	M
ATOM	23110	ND2	ASN	M	156	116.806	26.963	70.507	1.00173.16	M
ATOM	23111	C	ASN	M	156	114.460	30.933	71.351	1.00177.52	M
ATOM	23112	O	ASN	M	156	113.340	30.467	71.136	1.00177.04	M
ATOM	23113	N	ALA	M	157	114.739	32.232	71.256	1.00179.26	M
ATOM	23114	CA	ALA	M	157	113.731	33.216	70.867	1.00180.74	M
ATOM	23115	CB	ALA	M	157	114.218	34.624	71.194	1.00180.15	M
ATOM	23116	C	ALA	M	157	113.518	33.066	69.364	1.00181.78	M
ATOM	23117	O	ALA	M	157	113.213	34.030	68.658	1.00181.80	M
ATOM	23118	N	GLY	M	158	113.681	31.832	68.895	1.00182.73	M
ATOM	23119	CA	GLY	M	158	113.539	31.528	67.485	1.00183.82	M
ATOM	23120	C	GLY	M	158	114.921	31.339	66.892	1.00184.39	M
ATOM	23121	O	GLY	M	158	115.277	30.249	66.439	1.00183.96	M
ATOM	23122	N	THR	M	159	115.704	32.414	66.914	1.00185.09	M
ATOM	23123	CA	THR	M	159	117.065	32.411	66.389	1.00185.62	M
ATOM	23124	CB	THR	M	159	117.228	33.447	65.256	1.00185.33	M
ATOM	23125	OG1	THR	M	159	116.898	34.752	65.749	1.00185.31	M
ATOM	23126	CG2	THR	M	159	116.315	33.110	64.089	1.00184.87	M
ATOM	23127	C	THR	M	159	118.039	32.765	67.507	1.00185.91	M
ATOM	23128	O	THR	M	159	119.160	32.257	67.560	1.00185.79	M
ATOM	23129	N	ARG	M	160	117.593	33.643	68.400	1.00185.94	M
ATOM	23130	CA	ARG	M	160	118.399	34.092	69.527	1.00185.85	M
ATOM	23131	CB	ARG	M	160	117.891	35.456	70.000	1.00187.03	M
ATOM	23132	CG	ARG	M	160	118.482	35.949	71.309	1.00188.64	M
ATOM	23133	CD	ARG	M	160	120.005	35.925	71.317	1.00189.35	M
ATOM	23134	NE	ARG	M	160	120.524	36.730	72.416	1.00190.57	M
ATOM	23135	CZ	ARG	M	160	121.778	36.690	72.854	1.00191.09	M
ATOM	23136	NH1	ARG	M	160	122.666	35.876	72.290	1.00191.04	M
ATOM	23137	NH2	ARG	M	160	122.146	37.467	73.865	1.00191.81	M
ATOM	23138	C	ARG	M	160	118.363	33.085	70.676	1.00184.97	M
ATOM	23139	O	ARG	M	160	117.320	32.873	71.296	1.00185.01	M
ATOM	23140	N	VAL	M	161	119.513	32.470	70.950	1.00183.15	M
ATOM	23141	CA	VAL	M	161	119.635	31.476	72.014	1.00180.83	M
ATOM	23142	CB	VAL	M	161	120.952	30.666	71.887	1.00180.55	M
ATOM	23143	CG1	VAL	M	161	122.155	31.587	72.034	1.00180.32	M
ATOM	23144	CG2	VAL	M	161	120.992	29.569	72.941	1.00179.70	M
ATOM	23145	C	VAL	M	161	119.585	32.107	73.403	1.00179.10	M
ATOM	23146	O	VAL	M	161	120.243	33.114	73.669	1.00178.40	M
ATOM	23147	N	LEU	M	162	118.798	31.503	74.286	1.00177.47	M
ATOM	23148	CA	LEU	M	162	118.652	31.998	75.648	1.00175.29	M
ATOM	23149	CB	LEU	M	162	117.171	32.073	76.027	1.00175.98	M
ATOM	23150	CG	LEU	M	162	116.327	33.068	75.231	1.00176.22	M
ATOM	23151	CD1	LEU	M	162	114.900	33.096	75.768	1.00175.77	M

ATOM	23152	CD2	LEU	M	162	116.962	34.441	75.337	1.00176.05	M
ATOM	23153	C	LEU	M	162	119.389	31.127	76.656	1.00173.19	M
ATOM	23154	O	LEU	M	162	120.334	30.416	76.309	1.00172.86	M
ATOM	23155	N	GLU	M	163	118.946	31.190	77.908	1.00170.97	M
ATOM	23156	CA	GLU	M	163	119.560	30.416	78.975	1.00168.58	M
ATOM	23157	CB	GLU	M	163	120.094	31.357	80.053	1.00167.13	M
ATOM	23158	CG	GLU	M	163	121.000	30.684	81.056	1.00164.86	M
ATOM	23159	CD	GLU	M	163	121.850	31.677	81.808	1.00164.28	M
ATOM	23160	OE1	GLU	M	163	122.561	32.463	81.146	1.00164.02	M
ATOM	23161	OE2	GLU	M	163	121.812	31.671	83.055	1.00163.99	M
ATOM	23162	C	GLU	M	163	118.561	29.435	79.578	1.00167.55	M
ATOM	23163	O	GLU	M	163	117.366	29.725	79.670	1.00167.41	M
ATOM	23164	N	ASN	M	164	119.066	28.273	79.984	1.00166.29	M
ATOM	23165	CA	ASN	M	164	118.249	27.212	80.571	1.00164.72	M
ATOM	23166	CB	ASN	M	164	119.154	26.090	81.092	1.00162.66	M
ATOM	23167	CG	ASN	M	164	120.098	25.562	80.030	1.00160.50	M
ATOM	23168	OD1	ASN	M	164	119.669	24.985	79.032	1.00158.84	M
ATOM	23169	ND2	ASN	M	164	121.394	25.762	80.239	1.00159.13	M
ATOM	23170	C	ASN	M	164	117.355	27.714	81.704	1.00164.20	M
ATOM	23171	O	ASN	M	164	117.508	28.843	82.174	1.00164.94	M
ATOM	23172	N	ALA	M	165	116.428	26.867	82.144	1.00162.78	M
ATOM	23173	CA	ALA	M	165	115.510	27.227	83.218	1.00160.99	M
ATOM	23174	CB	ALA	M	165	114.413	28.132	82.674	1.00160.97	M
ATOM	23175	C	ALA	M	165	114.893	25.995	83.869	1.00159.76	M
ATOM	23176	O	ALA	M	165	114.868	24.917	83.278	1.00160.09	M
ATOM	23177	N	LEU	M	166	114.396	26.164	85.091	1.00158.69	M
ATOM	23178	CA	LEU	M	166	113.771	25.072	85.833	1.00158.51	M
ATOM	23179	CB	LEU	M	166	114.650	24.675	87.025	1.00154.99	M
ATOM	23180	CG	LEU	M	166	114.089	23.591	87.952	1.00151.79	M
ATOM	23181	CD1	LEU	M	166	113.913	22.295	87.185	1.00150.66	M
ATOM	23182	CD2	LEU	M	166	115.021	23.388	89.128	1.00149.53	M
ATOM	23183	C	LEU	M	166	112.381	25.481	86.324	1.00160.16	M
ATOM	23184	O	LEU	M	166	112.207	25.864	87.481	1.00160.41	M
ATOM	23185	N	VAL	M	167	111.394	25.394	85.435	1.00161.90	M
ATOM	23186	CA	VAL	M	167	110.019	25.760	85.761	1.00163.12	M
ATOM	23187	CB	VAL	M	167	109.143	25.797	84.487	1.00162.19	M
ATOM	23188	CG1	VAL	M	167	107.816	26.462	84.789	1.00162.23	M
ATOM	23189	CG2	VAL	M	167	109.872	26.535	83.373	1.00160.57	M
ATOM	23190	C	VAL	M	167	109.402	24.778	86.760	1.00165.03	M
ATOM	23191	O	VAL	M	167	109.221	23.600	86.458	1.00165.05	M
ATOM	23192	N	PRO	M	168	109.073	25.259	87.969	1.00167.02	M
ATOM	23193	CD	PRO	M	168	109.256	26.650	88.421	1.00167.23	M
ATOM	23194	CA	PRO	M	168	108.474	24.443	89.031	1.00169.01	M
ATOM	23195	CB	PRO	M	168	108.511	25.380	90.235	1.00168.54	M
ATOM	23196	CG	PRO	M	168	108.330	26.723	89.607	1.00167.44	M
ATOM	23197	C	PRO	M	168	107.053	23.962	88.708	1.00171.22	M
ATOM	23198	O	PRO	M	168	106.393	24.501	87.816	1.00171.85	M
ATOM	23199	N	PRO	M	169	106.570	22.934	89.431	1.00172.69	M
ATOM	23200	CD	PRO	M	169	107.321	22.177	90.443	1.00173.20	M
ATOM	23201	CA	PRO	M	169	105.234	22.354	89.254	1.00174.13	M
ATOM	23202	CB	PRO	M	169	105.197	21.242	90.301	1.00173.61	M
ATOM	23203	CG	PRO	M	169	106.619	20.842	90.421	1.00173.27	M
ATOM	23204	C	PRO	M	169	104.149	23.393	89.501	1.00175.58	M
ATOM	23205	O	PRO	M	169	104.115	24.019	90.563	1.00175.35	M
ATOM	23206	N	MET	M	170	103.264	23.570	88.525	1.00177.03	M
ATOM	23207	CA	MET	M	170	102.185	24.542	88.649	1.00177.95	M
ATOM	23208	CB	MET	M	170	101.234	24.125	89.772	1.00178.04	M
ATOM	23209	CG	MET	M	170	100.393	22.913	89.432	1.00177.43	M

ATOM	23210	SD	MET M 170	99.742	22.095	90.891	1.00178.32	M
ATOM	23211	CE	MET M 170	100.731	20.625	90.887	1.00177.32	M
ATOM	23212	C	MET M 170	102.767	25.918	88.937	1.00178.27	M
ATOM	23213	O	MET M 170	102.184	26.716	89.673	1.00178.41	M
ATOM	23214	N	GLY M 171	103.929	26.184	88.350	1.00178.21	M
ATOM	23215	CA	GLY M 171	104.584	27.461	88.548	1.00178.21	M
ATOM	23216	C	GLY M 171	105.068	28.036	87.235	1.00178.36	M
ATOM	23217	O	GLY M 171	104.711	27.549	86.162	1.00178.06	M
ATOM	23218	N	GLU M 172	105.887	29.078	87.324	1.00179.00	M
ATOM	23219	CA	GLU M 172	106.430	29.734	86.146	1.00179.27	M
ATOM	23220	CB	GLU M 172	105.447	30.801	85.648	1.00179.94	M
ATOM	23221	CG	GLU M 172	104.823	31.647	86.759	1.00180.96	M
ATOM	23222	CD	GLU M 172	103.650	32.489	86.273	1.00181.04	M
ATOM	23223	OE1	GLU M 172	103.866	33.377	85.420	1.00181.13	M
ATOM	23224	OE2	GLU M 172	102.513	32.259	86.744	1.00180.13	M
ATOM	23225	C	GLU M 172	107.788	30.354	86.451	1.00179.32	M
ATOM	23226	O	GLU M 172	108.158	30.528	87.612	1.00178.43	M
ATOM	23227	N	SER M 173	108.531	30.677	85.397	1.00180.38	M
ATOM	23228	CA	SER M 173	109.853	31.274	85.541	1.00181.60	M
ATOM	23229	CB	SER M 173	110.902	30.173	85.715	1.00181.18	M
ATOM	23230	OG	SER M 173	110.598	29.369	86.843	1.00180.08	M
ATOM	23231	C	SER M 173	110.186	32.137	84.326	1.00182.40	M
ATOM	23232	O	SER M 173	110.049	31.697	83.185	1.00182.44	M
ATOM	23233	N	ALA M 174	110.624	33.366	84.578	1.00183.26	M
ATOM	23234	CA	ALA M 174	110.954	34.290	83.500	1.00183.67	M
ATOM	23235	CB	ALA M 174	110.437	35.686	83.846	1.00184.32	M
ATOM	23236	C	ALA M 174	112.444	34.361	83.166	1.00183.52	M
ATOM	23237	O	ALA M 174	113.284	34.605	84.035	1.00183.14	M
ATOM	23238	N	VAL M 175	112.757	34.146	81.893	1.00183.51	M
ATOM	23239	CA	VAL M 175	114.124	34.208	81.410	1.00183.85	M
ATOM	23240	CB	VAL M 175	114.442	33.009	80.502	1.00184.06	M
ATOM	23241	CG1	VAL M 175	115.884	33.084	80.020	1.00183.72	M
ATOM	23242	CG2	VAL M 175	114.195	31.703	81.233	1.00184.03	M
ATOM	23243	C	VAL M 175	114.283	35.496	80.618	1.00184.43	M
ATOM	23244	O	VAL M 175	113.337	35.964	79.985	1.00184.20	M
ATOM	23245	N	LYS M 176	115.485	36.063	80.669	1.00185.35	M
ATOM	23246	CA	LYS M 176	115.781	37.325	79.992	1.00186.62	M
ATOM	23247	CB	LYS M 176	117.248	37.725	80.213	1.00185.60	M
ATOM	23248	CG	LYS M 176	117.565	38.078	81.657	1.00184.78	M
ATOM	23249	CD	LYS M 176	117.434	36.861	82.553	1.00184.98	M
ATOM	23250	CE	LYS M 176	117.144	37.274	83.988	1.00185.47	M
ATOM	23251	NZ	LYS M 176	115.795	37.935	84.100	1.00185.42	M
ATOM	23252	C	LYS M 176	115.495	37.310	78.486	1.00188.09	M
ATOM	23253	O	LYS M 176	116.242	36.719	77.711	1.00188.62	M
ATOM	23254	N	LEU M 177	114.417	37.968	78.069	1.00189.31	M
ATOM	23255	CA	LEU M 177	114.068	38.049	76.652	1.00190.32	M
ATOM	23256	CB	LEU M 177	112.583	38.375	76.497	1.00190.36	M
ATOM	23257	CG	LEU M 177	112.019	38.371	75.069	1.00190.41	M
ATOM	23258	CD1	LEU M 177	112.704	37.305	74.211	1.00189.84	M
ATOM	23259	CD2	LEU M 177	110.518	38.092	75.123	1.00190.82	M
ATOM	23260	C	LEU M 177	114.947	39.134	76.043	1.00191.31	M
ATOM	23261	O	LEU M 177	114.749	40.325	76.279	1.00190.92	M
ATOM	23262	N	PRO M 178	115.932	38.716	75.238	1.00192.78	M
ATOM	23263	CD	PRO M 178	115.981	37.323	74.758	1.00193.23	M
ATOM	23264	CA	PRO M 178	116.930	39.522	74.535	1.00194.08	M
ATOM	23265	CB	PRO M 178	117.728	38.468	73.779	1.00193.66	M
ATOM	23266	CG	PRO M 178	116.676	37.465	73.433	1.00193.60	M
ATOM	23267	C	PRO M 178	116.444	40.636	73.608	1.00195.30	M

ATOM	23268	O	PRO	M	178	117.201	41.564	73.300	1.00195.26	M
ATOM	23269	N	SER	M	179	115.196	40.551	73.161	1.00196.43	M
ATOM	23270	CA	SER	M	179	114.637	41.542	72.234	1.00197.09	M
ATOM	23271	CB	SER	M	179	114.920	42.979	72.705	1.00197.13	M
ATOM	23272	OG	SER	M	179	114.255	43.941	71.895	1.00197.84	M
ATOM	23273	C	SER	M	179	115.181	41.323	70.824	1.00197.23	M
ATOM	23274	O	SER	M	179	114.942	42.121	69.907	1.00197.28	M
ATOM	23275	N	ASP	M	180	115.944	40.239	70.687	1.00196.82	M
ATOM	23276	CA	ASP	M	180	116.516	39.801	69.407	1.00195.85	M
ATOM	23277	CB	ASP	M	180	117.974	39.357	69.594	1.00195.86	M
ATOM	23278	CG	ASP	M	180	118.864	40.463	70.131	1.00195.24	M
ATOM	23279	OD1	ASP	M	180	120.071	40.192	70.365	1.00194.49	M
ATOM	23280	OD2	ASP	M	180	118.371	41.599	70.319	1.00194.73	M
ATOM	23281	C	ASP	M	180	115.611	38.604	69.160	1.00194.79	M
ATOM	23282	O	ASP	M	180	115.995	37.565	68.637	1.00194.39	M
ATOM	23283	N	ALA	M	181	114.374	38.839	69.576	1.00194.02	M
ATOM	23284	CA	ALA	M	181	113.243	37.924	69.578	1.00193.42	M
ATOM	23285	CB	ALA	M	181	112.093	38.616	70.215	1.00192.69	M
ATOM	23286	C	ALA	M	181	112.763	37.311	68.266	1.00192.98	M
ATOM	23287	O	ALA	M	181	113.546	36.845	67.440	1.00193.44	M
ATOM	23288	N	GLY	M	182	111.435	37.267	68.151	1.00191.99	M
ATOM	23289	CA	GLY	M	182	110.735	36.702	67.011	1.00190.99	M
ATOM	23290	C	GLY	M	182	109.367	36.309	67.534	1.00190.55	M
ATOM	23291	O	GLY	M	182	108.440	37.120	67.553	1.00189.85	M
ATOM	23292	N	SER	M	183	109.271	35.062	67.980	1.00191.14	M
ATOM	23293	CA	SER	M	183	108.059	34.480	68.534	1.00191.80	M
ATOM	23294	CB	SER	M	183	106.791	35.075	67.902	1.00191.82	M
ATOM	23295	OG	SER	M	183	105.871	35.492	68.903	1.00191.35	M
ATOM	23296	C	SER	M	183	108.121	32.981	68.261	1.00191.85	M
ATOM	23297	O	SER	M	183	107.313	32.196	68.766	1.00191.98	M
ATOM	23298	N	ASN	M	184	109.099	32.593	67.450	1.00191.36	M
ATOM	23299	CA	ASN	M	184	109.311	31.191	67.101	1.00190.18	M
ATOM	23300	CB	ASN	M	184	110.225	31.077	65.867	1.00191.58	M
ATOM	23301	CG	ASN	M	184	110.535	29.631	65.493	1.00192.69	M
ATOM	23302	OD1	ASN	M	184	109.628	28.845	65.216	1.00193.46	M
ATOM	23303	ND2	ASN	M	184	111.821	29.275	65.489	1.00193.00	M
ATOM	23304	C	ASN	M	184	109.953	30.472	68.278	1.00188.38	M
ATOM	23305	O	ASN	M	184	110.896	29.695	68.109	1.00188.47	M
ATOM	23306	N	ILE	M	185	109.448	30.747	69.475	1.00185.96	M
ATOM	23307	CA	ILE	M	185	109.988	30.118	70.671	1.00183.40	M
ATOM	23308	CB	ILE	M	185	109.083	30.356	71.901	1.00183.40	M
ATOM	23309	CG2	ILE	M	185	109.708	29.698	73.131	1.00181.97	M
ATOM	23310	CG1	ILE	M	185	108.913	31.858	72.150	1.00183.37	M
ATOM	23311	CD1	ILE	M	185	108.022	32.197	73.333	1.00182.77	M
ATOM	23312	C	ILE	M	185	110.144	28.612	70.467	1.00181.28	M
ATOM	23313	O	ILE	M	185	109.228	27.945	69.994	1.00180.97	M
ATOM	23314	N	THR	M	186	111.321	28.095	70.807	1.00178.77	M
ATOM	23315	CA	THR	M	186	111.625	26.673	70.675	1.00176.06	M
ATOM	23316	CB	THR	M	186	112.554	26.416	69.480	1.00176.01	M
ATOM	23317	OG1	THR	M	186	113.760	27.172	69.638	1.00175.75	M
ATOM	23318	CG2	THR	M	186	111.876	26.827	68.185	1.00175.32	M
ATOM	23319	C	THR	M	186	112.309	26.191	71.949	1.00173.92	M
ATOM	23320	O	THR	M	186	112.957	26.980	72.638	1.00173.62	M
ATOM	23321	N	TYR	M	187	112.179	24.903	72.264	1.00171.58	M
ATOM	23322	CA	TYR	M	187	112.785	24.389	73.486	1.00169.33	M
ATOM	23323	CB	TYR	M	187	112.002	24.909	74.693	1.00169.88	M
ATOM	23324	CG	TYR	M	187	110.566	24.427	74.747	1.00170.31	M
ATOM	23325	CD1	TYR	M	187	110.229	23.239	75.398	1.00169.69	M

ATOM	23326	CE1	TYR	M	187	108.909	22.785	75.437	1.00170.48	M
ATOM	23327	CD2	TYR	M	187	109.545	25.152	74.131	1.00170.86	M
ATOM	23328	CE2	TYR	M	187	108.223	24.709	74.160	1.00171.33	M
ATOM	23329	CZ	TYR	M	187	107.911	23.526	74.814	1.00171.52	M
ATOM	23330	OH	TYR	M	187	106.604	23.090	74.837	1.00172.00	M
ATOM	23331	C	TYR	M	187	112.884	22.874	73.588	1.00167.29	M
ATOM	23332	O	TYR	M	187	112.095	22.138	72.994	1.00167.50	M
ATOM	23333	N	ARG	M	188	113.867	22.422	74.359	1.00164.56	M
ATOM	23334	CA	ARG	M	188	114.084	21.003	74.602	1.00162.61	M
ATOM	23335	CB	ARG	M	188	115.392	20.532	73.959	1.00162.09	M
ATOM	23336	CG	ARG	M	188	115.411	20.626	72.439	1.00161.34	M
ATOM	23337	CD	ARG	M	188	116.694	20.039	71.864	1.00160.26	M
ATOM	23338	NE	ARG	M	188	116.756	18.584	71.968	1.00158.13	M
ATOM	23339	CZ	ARG	M	188	116.046	17.749	71.215	1.00157.97	M
ATOM	23340	NH1	ARG	M	188	115.213	18.220	70.296	1.00157.49	M
ATOM	23341	NH2	ARG	M	188	116.172	16.440	71.374	1.00158.57	M
ATOM	23342	C	ARG	M	188	114.158	20.837	76.117	1.00161.60	M
ATOM	23343	O	ARG	M	188	114.588	21.749	76.820	1.00161.42	M
ATOM	23344	N	THR	M	189	113.728	19.684	76.621	1.00160.62	M
ATOM	23345	CA	THR	M	189	113.748	19.440	78.060	1.00159.17	M
ATOM	23346	CB	THR	M	189	112.324	19.303	78.626	1.00160.75	M
ATOM	23347	OG1	THR	M	189	111.812	18.000	78.319	1.00162.48	M
ATOM	23348	CG2	THR	M	189	111.403	20.355	78.014	1.00162.72	M
ATOM	23349	C	THR	M	189	114.514	18.175	78.425	1.00156.94	M
ATOM	23350	O	THR	M	189	114.965	17.434	77.553	1.00157.16	M
ATOM	23351	N	ILE	M	190	114.651	17.936	79.726	1.00154.58	M
ATOM	23352	CA	ILE	M	190	115.356	16.761	80.227	1.00152.38	M
ATOM	23353	CB	ILE	M	190	116.539	17.158	81.134	1.00150.72	M
ATOM	23354	CG2	ILE	M	190	117.323	15.920	81.533	1.00149.53	M
ATOM	23355	CG1	ILE	M	190	117.460	18.130	80.400	1.00149.30	M
ATOM	23356	CD1	ILE	M	190	118.613	18.617	81.241	1.00148.34	M
ATOM	23357	C	ILE	M	190	114.401	15.885	81.035	1.00151.43	M
ATOM	23358	O	ILE	M	190	113.895	16.299	82.078	1.00151.45	M
ATOM	23359	N	ASN	M	191	114.165	14.671	80.550	1.00149.85	M
ATOM	23360	CA	ASN	M	191	113.266	13.747	81.223	1.00148.87	M
ATOM	23361	CB	ASN	M	191	112.764	12.696	80.238	1.00149.98	M
ATOM	23362	CG	ASN	M	191	113.891	12.006	79.512	1.00150.89	M
ATOM	23363	OD1	ASN	M	191	114.772	11.412	80.132	1.00151.21	M
ATOM	23364	ND2	ASN	M	191	113.875	12.085	78.186	1.00152.21	M
ATOM	23365	C	ASN	M	191	113.907	13.062	82.421	1.00147.71	M
ATOM	23366	O	ASN	M	191	114.978	13.458	82.875	1.00146.15	M
ATOM	23367	N	ASP	M	192	113.239	12.018	82.908	1.00147.99	M
ATOM	23368	CA	ASP	M	192	113.675	11.255	84.078	1.00147.77	M
ATOM	23369	CB	ASP	M	192	112.597	10.238	84.477	1.00150.61	M
ATOM	23370	CG	ASP	M	192	111.232	10.874	84.685	1.00153.53	M
ATOM	23371	OD1	ASP	M	192	110.329	10.176	85.194	1.00154.92	M
ATOM	23372	OD2	ASP	M	192	111.059	12.061	84.332	1.00156.05	M
ATOM	23373	C	ASP	M	192	115.005	10.515	83.968	1.00145.49	M
ATOM	23374	O	ASP	M	192	115.655	10.257	84.982	1.00144.36	M
ATOM	23375	N	TYR	M	193	115.409	10.159	82.753	1.00143.78	M
ATOM	23376	CA	TYR	M	193	116.657	9.425	82.570	1.00142.60	M
ATOM	23377	CB	TYR	M	193	116.473	8.352	81.496	1.00139.31	M
ATOM	23378	CG	TYR	M	193	115.130	7.664	81.568	1.00136.59	M
ATOM	23379	CD1	TYR	M	193	114.057	8.109	80.795	1.00135.69	M
ATOM	23380	CE1	TYR	M	193	112.809	7.504	80.881	1.00133.93	M
ATOM	23381	CD2	TYR	M	193	114.920	6.592	82.433	1.00134.77	M
ATOM	23382	CE2	TYR	M	193	113.677	5.979	82.529	1.00133.25	M
ATOM	23383	CZ	TYR	M	193	112.627	6.439	81.751	1.00133.58	M

ATOM	23384	OH	TYR M 193	111.396	5.835	81.839	1.00133.30	M
ATOM	23385	C	TYR M 193	117.806	10.349	82.193	1.00143.89	M
ATOM	23386	O	TYR M 193	118.949	9.911	82.055	1.00142.62	M
ATOM	23387	N	GLY M 194	117.495	11.633	82.046	1.00146.49	M
ATOM	23388	CA	GLY M 194	118.509	12.605	81.684	1.00148.23	M
ATOM	23389	C	GLY M 194	118.651	12.704	80.180	1.00149.28	M
ATOM	23390	O	GLY M 194	119.754	12.891	79.663	1.00149.38	M
ATOM	23391	N	ALA M 195	117.528	12.584	79.475	1.00149.91	M
ATOM	23392	CA	ALA M 195	117.529	12.643	78.017	1.00150.65	M
ATOM	23393	CB	ALA M 195	117.038	11.316	77.454	1.00149.41	M
ATOM	23394	C	ALA M 195	116.688	13.794	77.457	1.00151.24	M
ATOM	23395	O	ALA M 195	115.554	14.021	77.884	1.00151.51	M
ATOM	23396	N	LEU M 196	117.258	14.515	76.496	1.00151.87	M
ATOM	23397	CA	LEU M 196	116.589	15.645	75.856	1.00152.74	M
ATOM	23398	CB	LEU M 196	117.529	16.316	74.849	1.00153.01	M
ATOM	23399	CG	LEU M 196	118.610	17.277	75.341	1.00153.04	M
ATOM	23400	CD1	LEU M 196	119.578	17.590	74.212	1.00152.50	M
ATOM	23401	CD2	LEU M 196	117.954	18.546	75.845	1.00154.12	M
ATOM	23402	C	LEU M 196	115.325	15.222	75.124	1.00153.29	M
ATOM	23403	O	LEU M 196	115.383	14.414	74.202	1.00153.81	M
ATOM	23404	N	THR M 197	114.185	15.770	75.528	1.00154.25	M
ATOM	23405	CA	THR M 197	112.927	15.447	74.865	1.00156.05	M
ATOM	23406	CB	THR M 197	111.721	15.988	75.657	1.00155.19	M
ATOM	23407	OG1	THR M 197	111.763	17.419	75.684	1.00154.18	M
ATOM	23408	CG2	THR M 197	111.748	15.458	77.081	1.00155.00	M
ATOM	23409	C	THR M 197	112.976	16.098	73.477	1.00157.89	M
ATOM	23410	O	THR M 197	113.830	16.950	73.221	1.00157.24	M
ATOM	23411	N	PRO M 198	112.066	15.707	72.564	1.00159.67	M
ATOM	23412	CD	PRO M 198	110.910	14.806	72.727	1.00159.99	M
ATOM	23413	CA	PRO M 198	112.075	16.294	71.219	1.00160.50	M
ATOM	23414	CB	PRO M 198	110.975	15.520	70.499	1.00159.07	M
ATOM	23415	CG	PRO M 198	110.005	15.237	71.593	1.00158.55	M
ATOM	23416	C	PRO M 198	111.846	17.801	71.184	1.00162.02	M
ATOM	23417	O	PRO M 198	111.049	18.341	71.952	1.00162.58	M
ATOM	23418	N	LYS M 199	112.556	18.469	70.280	1.00163.36	M
ATOM	23419	CA	LYS M 199	112.450	19.915	70.117	1.00165.23	M
ATOM	23420	CB	LYS M 199	113.464	20.390	69.072	1.00163.65	M
ATOM	23421	CG	LYS M 199	113.212	21.782	68.533	1.00161.52	M
ATOM	23422	CD	LYS M 199	114.209	22.112	67.441	1.00159.22	M
ATOM	23423	CE	LYS M 199	113.732	23.287	66.609	1.00158.60	M
ATOM	23424	NZ	LYS M 199	113.448	24.473	67.459	1.00158.10	M
ATOM	23425	C	LYS M 199	111.037	20.317	69.701	1.00167.26	M
ATOM	23426	O	LYS M 199	110.544	19.891	68.659	1.00167.32	M
ATOM	23427	N	MET M 200	110.390	21.138	70.523	1.00169.62	M
ATOM	23428	CA	MET M 200	109.032	21.594	70.245	1.00171.97	M
ATOM	23429	CB	MET M 200	108.096	21.118	71.358	1.00172.32	M
ATOM	23430	CG	MET M 200	108.818	20.777	72.655	1.00173.30	M
ATOM	23431	SD	MET M 200	107.786	19.860	73.818	1.00174.58	M
ATOM	23432	CE	MET M 200	108.158	18.155	73.346	1.00174.14	M
ATOM	23433	C	MET M 200	108.974	23.113	70.099	1.00173.50	M
ATOM	23434	O	MET M 200	109.999	23.789	70.205	1.00173.50	M
ATOM	23435	N	THR M 201	107.781	23.649	69.851	1.00175.06	M
ATOM	23436	CA	THR M 201	107.620	25.092	69.670	1.00176.20	M
ATOM	23437	CB	THR M 201	106.780	25.412	68.401	1.00176.49	M
ATOM	23438	OG1	THR M 201	107.354	24.754	67.264	1.00176.27	M
ATOM	23439	CG2	THR M 201	106.758	26.917	68.136	1.00175.83	M
ATOM	23440	C	THR M 201	106.972	25.784	70.870	1.00176.45	M
ATOM	23441	O	THR M 201	106.176	25.189	71.599	1.00175.91	M

ATOM	23442	N	GLY	M	202	107.330	27.052	71.057	1.00176.85	M
ATOM	23443	CA	GLY	M	202	106.797	27.839	72.151	1.00177.04	M
ATOM	23444	C	GLY	M	202	105.360	28.240	71.899	1.00177.33	M
ATOM	23445	O	GLY	M	202	105.067	28.996	70.971	1.00176.79	M
ATOM	23446	N	VAL	M	203	104.468	27.732	72.742	1.00178.09	M
ATOM	23447	CA	VAL	M	203	103.039	28.002	72.636	1.00179.07	M
ATOM	23448	CB	VAL	M	203	102.224	26.727	72.955	1.00179.62	M
ATOM	23449	CG1	VAL	M	203	100.742	26.979	72.732	1.00180.06	M
ATOM	23450	CG2	VAL	M	203	102.715	25.570	72.096	1.00179.50	M
ATOM	23451	C	VAL	M	203	102.603	29.112	73.593	1.00179.13	M
ATOM	23452	O	VAL	M	203	101.960	28.843	74.611	1.00178.93	M
ATOM	23453	N	MET	M	204	102.950	30.356	73.263	1.00179.00	M
ATOM	23454	CA	MET	M	204	102.586	31.498	74.099	1.00178.66	M
ATOM	23455	CB	MET	M	204	102.877	32.820	73.376	1.00177.75	M
ATOM	23456	CG	MET	M	204	104.351	33.094	73.092	1.00177.28	M
ATOM	23457	SD	MET	M	204	105.060	31.999	71.841	1.00177.28	M
ATOM	23458	CE	MET	M	204	104.664	32.897	70.347	1.00176.88	M
ATOM	23459	C	MET	M	204	101.107	31.440	74.467	1.00179.01	M
ATOM	23460	O	MET	M	204	100.254	31.233	73.605	1.00178.75	M
ATOM	23461	N	GLU	M	205	100.809	31.616	75.750	1.00179.74	M
ATOM	23462	CA	GLU	M	205	99.429	31.589	76.224	1.00180.67	M
ATOM	23463	CB	GLU	M	205	99.355	31.024	77.644	1.00181.66	M
ATOM	23464	CG	GLU	M	205	100.099	31.852	78.681	1.00183.20	M
ATOM	23465	CD	GLU	M	205	99.321	32.013	79.974	1.00183.54	M
ATOM	23466	OE1	GLU	M	205	99.847	32.656	80.909	1.00183.62	M
ATOM	23467	OE2	GLU	M	205	98.183	31.503	80.052	1.00184.04	M
ATOM	23468	C	GLU	M	205	98.838	32.994	76.206	1.00180.85	M
ATOM	23469	O	GLU	M	205	97.645	33.123	75.852	1.00181.11	M
ATOM	23470	OXT	GLU	M	205	99.574	33.942	76.561	1.00180.79	M
ATOM	23471	CB	PHE	N	1	110.912	-30.283	62.607	1.00 84.33	N
ATOM	23472	CG	PHE	N	1	111.570	-29.215	63.440	1.00 82.84	N
ATOM	23473	CD1	PHE	N	1	111.632	-27.906	62.989	1.00 82.49	N
ATOM	23474	CD2	PHE	N	1	112.101	-29.515	64.690	1.00 82.31	N
ATOM	23475	CE1	PHE	N	1	112.210	-26.911	63.764	1.00 80.22	N
ATOM	23476	CE2	PHE	N	1	112.679	-28.526	65.471	1.00 80.68	N
ATOM	23477	CZ	PHE	N	1	112.731	-27.220	65.005	1.00 80.61	N
ATOM	23478	C	PHE	N	1	108.778	-28.988	62.378	1.00 86.19	N
ATOM	23479	O	PHE	N	1	108.715	-28.624	61.198	1.00 86.27	N
ATOM	23480	N	PHE	N	1	108.831	-31.423	61.902	1.00 85.42	N
ATOM	23481	CA	PHE	N	1	109.386	-30.334	62.752	1.00 84.50	N
ATOM	23482	N	ALA	N	2	108.320	-28.261	63.394	1.00 88.20	N
ATOM	23483	CA	ALA	N	2	107.720	-26.944	63.207	1.00 89.52	N
ATOM	23484	CB	ALA	N	2	106.258	-27.080	62.789	1.00 90.34	N
ATOM	23485	C	ALA	N	2	107.827	-26.161	64.512	1.00 90.57	N
ATOM	23486	O	ALA	N	2	108.055	-26.742	65.580	1.00 88.38	N
ATOM	23487	N	CYS	N	3	107.662	-24.843	64.421	1.00 92.41	N
ATOM	23488	CA	CYS	N	3	107.760	-23.975	65.591	1.00 92.65	N
ATOM	23489	C	CYS	N	3	106.661	-22.921	65.582	1.00 95.18	N
ATOM	23490	O	CYS	N	3	105.956	-22.755	64.585	1.00 95.24	N
ATOM	23491	CB	CYS	N	3	109.111	-23.261	65.601	1.00 90.77	N
ATOM	23492	SG	CYS	N	3	110.555	-24.297	65.215	1.00 82.28	N
ATOM	23493	N	LYS	N	4	106.533	-22.203	66.696	1.00 97.84	N
ATOM	23494	CA	LYS	N	4	105.533	-21.145	66.820	1.00 99.69	N
ATOM	23495	CB	LYS	N	4	104.139	-21.751	67.027	1.00101.99	N
ATOM	23496	CG	LYS	N	4	103.953	-22.566	68.306	1.00104.22	N
ATOM	23497	CD	LYS	N	4	102.619	-23.322	68.285	1.00105.06	N
ATOM	23498	CE	LYS	N	4	101.431	-22.386	68.035	1.00102.42	N
ATOM	23499	NZ	LYS	N	4	100.148	-23.119	67.825	1.00 99.99	N

ATOM	23500	C	LYS	N	4	105.857	-20.177	67.953	1.00	99.59	N
ATOM	23501	O	LYS	N	4	106.465	-20.559	68.954	1.00	99.27	N
ATOM	23502	N	THR	N	5	105.448	-18.923	67.781	1.00	100.39	N
ATOM	23503	CA	THR	N	5	105.689	-17.885	68.777	1.00	102.37	N
ATOM	23504	CB	THR	N	5	105.926	-16.508	68.109	1.00	102.76	N
ATOM	23505	OG1	THR	N	5	107.187	-16.521	67.433	1.00	101.95	N
ATOM	23506	CG2	THR	N	5	105.934	-15.391	69.147	1.00	104.52	N
ATOM	23507	C	THR	N	5	104.538	-17.752	69.764	1.00	102.91	N
ATOM	23508	O	THR	N	5	103.369	-17.733	69.379	1.00	104.10	N
ATOM	23509	N	ALA	N	6	104.888	-17.652	71.041	1.00	103.74	N
ATOM	23510	CA	ALA	N	6	103.913	-17.511	72.112	1.00	105.76	N
ATOM	23511	CB	ALA	N	6	104.632	-17.209	73.420	1.00	104.03	N
ATOM	23512	C	ALA	N	6	102.884	-16.419	71.819	1.00	107.47	N
ATOM	23513	O	ALA	N	6	101.814	-16.388	72.427	1.00	107.52	N
ATOM	23514	N	ASN	N	7	103.209	-15.524	70.889	1.00	109.43	N
ATOM	23515	CA	ASN	N	7	102.303	-14.435	70.535	1.00	111.24	N
ATOM	23516	CB	ASN	N	7	103.102	-13.199	70.091	1.00	115.37	N
ATOM	23517	CG	ASN	N	7	102.263	-11.920	70.090	1.00	116.60	N
ATOM	23518	OD1	ASN	N	7	101.739	-11.507	71.127	1.00	115.03	N
ATOM	23519	ND2	ASN	N	7	102.142	-11.286	68.924	1.00	118.01	N
ATOM	23520	C	ASN	N	7	101.361	-14.869	69.418	1.00	110.27	N
ATOM	23521	O	ASN	N	7	100.347	-14.217	69.155	1.00	110.54	N
ATOM	23522	N	GLY	N	8	101.697	-15.969	68.758	1.00	108.57	N
ATOM	23523	CA	GLY	N	8	100.846	-16.444	67.688	1.00	108.71	N
ATOM	23524	C	GLY	N	8	101.581	-17.082	66.532	1.00	109.06	N
ATOM	23525	O	GLY	N	8	101.940	-18.255	66.604	1.00	110.11	N
ATOM	23526	N	THR	N	9	101.805	-16.303	65.473	1.00	107.93	N
ATOM	23527	CA	THR	N	9	102.475	-16.779	64.262	1.00	106.29	N
ATOM	23528	CB	THR	N	9	103.314	-15.672	63.599	1.00	105.91	N
ATOM	23529	OG1	THR	N	9	102.489	-14.529	63.349	1.00	104.56	N
ATOM	23530	CG2	THR	N	9	103.888	-16.169	62.276	1.00	104.91	N
ATOM	23531	C	THR	N	9	103.377	-17.982	64.485	1.00	106.15	N
ATOM	23532	O	THR	N	9	104.136	-18.038	65.454	1.00	105.79	N
ATOM	23533	N	ALA	N	10	103.285	-18.942	63.573	1.00	106.33	N
ATOM	23534	CA	ALA	N	10	104.074	-20.159	63.662	1.00	107.71	N
ATOM	23535	CB	ALA	N	10	103.164	-21.340	63.954	1.00	107.46	N
ATOM	23536	C	ALA	N	10	104.849	-20.407	62.374	1.00	108.44	N
ATOM	23537	O	ALA	N	10	104.489	-19.898	61.308	1.00	108.85	N
ATOM	23538	N	ILE	N	11	105.920	-21.187	62.483	1.00	107.95	N
ATOM	23539	CA	ILE	N	11	106.743	-21.510	61.330	1.00	108.81	N
ATOM	23540	CB	ILE	N	11	108.229	-21.251	61.610	1.00	110.35	N
ATOM	23541	CG2	ILE	N	11	109.039	-21.549	60.369	1.00	108.87	N
ATOM	23542	CG1	ILE	N	11	108.430	-19.789	62.021	1.00	110.01	N
ATOM	23543	CD1	ILE	N	11	109.863	-19.417	62.319	1.00	108.58	N
ATOM	23544	C	ILE	N	11	106.529	-22.977	60.992	1.00	109.25	N
ATOM	23545	O	ILE	N	11	106.918	-23.867	61.750	1.00	108.92	N
ATOM	23546	N	PRO	N	12	105.909	-23.240	59.832	1.00	110.34	N
ATOM	23547	CD	PRO	N	12	105.551	-22.191	58.860	1.00	110.50	N
ATOM	23548	CA	PRO	N	12	105.581	-24.566	59.298	1.00	111.23	N
ATOM	23549	CB	PRO	N	12	104.769	-24.234	58.052	1.00	110.10	N
ATOM	23550	CG	PRO	N	12	105.416	-22.975	57.575	1.00	110.63	N
ATOM	23551	C	PRO	N	12	106.727	-25.521	58.992	1.00	112.37	N
ATOM	23552	O	PRO	N	12	107.903	-25.171	59.087	1.00	111.97	N
ATOM	23553	N	ILE	N	13	106.345	-26.742	58.629	1.00	114.78	N
ATOM	23554	CA	ILE	N	13	107.277	-27.803	58.273	1.00	116.10	N
ATOM	23555	CB	ILE	N	13	106.520	-29.121	57.970	1.00	114.11	N
ATOM	23556	CG2	ILE	N	13	107.461	-30.133	57.337	1.00	112.96	N
ATOM	23557	CG1	ILE	N	13	105.880	-29.661	59.248	1.00	111.38	N

ATOM	23558	CD1	ILE	N	13	105.119	-30.945	59.051	1.00110.44	N
ATOM	23559	C	ILE	N	13	108.040	-27.395	57.019	1.00118.56	N
ATOM	23560	O	ILE	N	13	107.446	-26.924	56.046	1.00119.46	N
ATOM	23561	N	GLY	N	14	109.356	-27.571	57.044	1.00119.98	N
ATOM	23562	CA	GLY	N	14	110.156	-27.227	55.883	1.00120.80	N
ATOM	23563	C	GLY	N	14	110.666	-25.800	55.834	1.00121.00	N
ATOM	23564	O	GLY	N	14	111.020	-25.304	54.764	1.00121.55	N
ATOM	23565	N	GLY	N	15	110.707	-25.136	56.984	1.00120.87	N
ATOM	23566	CA	GLY	N	15	111.203	-23.773	57.016	1.00121.19	N
ATOM	23567	C	GLY	N	15	110.167	-22.727	57.365	1.00121.02	N
ATOM	23568	O	GLY	N	15	109.070	-23.054	57.821	1.00122.14	N
ATOM	23569	N	GLY	N	16	110.527	-21.462	57.156	1.00120.45	N
ATOM	23570	CA	GLY	N	16	109.627	-20.361	57.449	1.00118.92	N
ATOM	23571	C	GLY	N	16	110.337	-19.100	57.908	1.00117.31	N
ATOM	23572	O	GLY	N	16	111.541	-18.937	57.699	1.00117.64	N
ATOM	23573	N	SER	N	17	109.578	-18.206	58.532	1.00115.42	N
ATOM	23574	CA	SER	N	17	110.099	-16.942	59.039	1.00114.82	N
ATOM	23575	CB	SER	N	17	110.454	-16.002	57.883	1.00115.78	N
ATOM	23576	OG	SER	N	17	111.518	-16.519	57.102	1.00117.73	N
ATOM	23577	C	SER	N	17	109.028	-16.301	59.907	1.00114.28	N
ATOM	23578	O	SER	N	17	107.849	-16.317	59.557	1.00113.66	N
ATOM	23579	N	ALA	N	18	109.439	-15.737	61.038	1.00114.30	N
ATOM	23580	CA	ALA	N	18	108.498	-15.105	61.955	1.00113.28	N
ATOM	23581	CB	ALA	N	18	108.191	-16.050	63.109	1.00113.70	N
ATOM	23582	C	ALA	N	18	109.014	-13.778	62.494	1.00112.05	N
ATOM	23583	O	ALA	N	18	109.941	-13.192	61.942	1.00113.58	N
ATOM	23584	N	ASN	N	19	108.400	-13.315	63.578	1.00109.80	N
ATOM	23585	CA	ASN	N	19	108.772	-12.058	64.214	1.00109.01	N
ATOM	23586	CB	ASN	N	19	108.050	-10.890	63.539	1.00110.27	N
ATOM	23587	CG	ASN	N	19	108.532	-10.639	62.127	1.00113.32	N
ATOM	23588	OD1	ASN	N	19	109.436	-9.833	61.904	1.00116.52	N
ATOM	23589	ND2	ASN	N	19	107.937	-11.337	61.163	1.00111.76	N
ATOM	23590	C	ASN	N	19	108.374	-12.094	65.679	1.00108.14	N
ATOM	23591	O	ASN	N	19	107.200	-12.269	66.000	1.00110.83	N
ATOM	23592	N	VAL	N	20	109.344	-11.936	66.571	1.00106.13	N
ATOM	23593	CA	VAL	N	20	109.047	-11.930	67.999	1.00106.52	N
ATOM	23594	CB	VAL	N	20	110.064	-12.788	68.792	1.00105.60	N
ATOM	23595	CG1	VAL	N	20	109.517	-13.103	70.174	1.00102.86	N
ATOM	23596	CG2	VAL	N	20	110.357	-14.072	68.038	1.00107.78	N
ATOM	23597	C	VAL	N	20	109.116	-10.471	68.467	1.00107.77	N
ATOM	23598	O	VAL	N	20	110.067	-9.757	68.142	1.00107.83	N
ATOM	23599	N	TYR	N	21	108.108	-10.027	69.218	1.00106.67	N
ATOM	23600	CA	TYR	N	21	108.070	-8.643	69.686	1.00104.27	N
ATOM	23601	CB	TYR	N	21	106.680	-8.049	69.434	1.00 94.15	N
ATOM	23602	CG	TYR	N	21	106.283	-8.134	67.985	1.00 83.61	N
ATOM	23603	CD1	TYR	N	21	105.832	-9.332	67.438	1.00 80.96	N
ATOM	23604	CE1	TYR	N	21	105.565	-9.449	66.077	1.00 76.82	N
ATOM	23605	CD2	TYR	N	21	106.447	-7.046	67.136	1.00 81.71	N
ATOM	23606	CE2	TYR	N	21	106.183	-7.152	65.772	1.00 76.73	N
ATOM	23607	CZ	TYR	N	21	105.748	-8.358	65.249	1.00 74.93	N
ATOM	23608	OH	TYR	N	21	105.546	-8.490	63.894	1.00 72.03	N
ATOM	23609	C	TYR	N	21	108.452	-8.491	71.149	1.00107.26	N
ATOM	23610	O	TYR	N	21	108.023	-7.551	71.817	1.00109.24	N
ATOM	23611	N	VAL	N	22	109.281	-9.414	71.625	1.00109.76	N
ATOM	23612	CA	VAL	N	22	109.754	-9.435	73.007	1.00113.12	N
ATOM	23613	CB	VAL	N	22	111.140	-10.108	73.102	1.00114.75	N
ATOM	23614	CG1	VAL	N	22	111.051	-11.544	72.627	1.00115.69	N
ATOM	23615	CG2	VAL	N	22	112.156	-9.330	72.272	1.00114.13	N

ATOM	23616	C	VAL	N	22	109.857	-8.086	73.719	1.00114.54	N
ATOM	23617	O	VAL	N	22	110.205	-7.066	73.119	1.00114.92	N
ATOM	23618	N	ASN	N	23	109.546	-8.100	75.012	1.00116.01	N
ATOM	23619	CA	ASN	N	23	109.628	-6.907	75.840	1.00117.62	N
ATOM	23620	CB	ASN	N	23	108.455	-6.838	76.827	1.00118.80	N
ATOM	23621	CG	ASN	N	23	107.106	-6.713	76.131	1.00120.31	N
ATOM	23622	OD1	ASN	N	23	106.932	-5.888	75.231	1.00120.73	N
ATOM	23623	ND2	ASN	N	23	106.141	-7.525	76.556	1.00118.47	N
ATOM	23624	C	ASN	N	23	110.945	-7.016	76.597	1.00118.49	N
ATOM	23625	O	ASN	N	23	111.333	-8.103	77.035	1.00118.27	N
ATOM	23626	N	LEU	N	24	111.629	-5.888	76.746	1.00119.12	N
ATOM	23627	CA	LEU	N	24	112.918	-5.858	77.424	1.00118.02	N
ATOM	23628	CB	LEU	N	24	113.995	-5.435	76.420	1.00117.04	N
ATOM	23629	CG	LEU	N	24	113.764	-5.951	74.996	1.00115.53	N
ATOM	23630	CD1	LEU	N	24	114.721	-5.270	74.043	1.00114.56	N
ATOM	23631	CD2	LEU	N	24	113.923	-7.464	74.960	1.00115.60	N
ATOM	23632	C	LEU	N	24	112.882	-4.871	78.589	1.00117.32	N
ATOM	23633	O	LEU	N	24	112.221	-3.838	78.497	1.00116.55	N
ATOM	23634	N	ALA	N	25	113.585	-5.194	79.676	1.00116.45	N
ATOM	23635	CA	ALA	N	25	113.639	-4.316	80.840	1.00116.96	N
ATOM	23636	CB	ALA	N	25	114.782	-4.731	81.755	1.00114.96	N
ATOM	23637	C	ALA	N	25	113.861	-2.899	80.323	1.00119.17	N
ATOM	23638	O	ALA	N	25	114.989	-2.510	80.030	1.00120.75	N
ATOM	23639	N	PRO	N	26	112.778	-2.111	80.205	1.00120.99	N
ATOM	23640	CD	PRO	N	26	111.445	-2.453	80.734	1.00122.09	N
ATOM	23641	CA	PRO	N	26	112.785	-0.727	79.718	1.00121.44	N
ATOM	23642	CB	PRO	N	26	111.456	-0.180	80.230	1.00121.96	N
ATOM	23643	CG	PRO	N	26	110.572	-1.369	80.134	1.00121.93	N
ATOM	23644	C	PRO	N	26	113.967	0.149	80.126	1.00120.53	N
ATOM	23645	O	PRO	N	26	114.292	1.109	79.430	1.00119.98	N
ATOM	23646	N	VAL	N	27	114.608	-0.170	81.246	1.00119.20	N
ATOM	23647	CA	VAL	N	27	115.742	0.627	81.693	1.00118.31	N
ATOM	23648	CB	VAL	N	27	115.320	1.618	82.790	1.00117.53	N
ATOM	23649	CG1	VAL	N	27	116.532	2.375	83.306	1.00116.00	N
ATOM	23650	CG2	VAL	N	27	114.293	2.587	82.235	1.00117.75	N
ATOM	23651	C	VAL	N	27	116.924	-0.191	82.198	1.00119.38	N
ATOM	23652	O	VAL	N	27	116.890	-0.750	83.296	1.00118.99	N
ATOM	23653	N	VAL	N	28	117.970	-0.243	81.377	1.00120.91	N
ATOM	23654	CA	VAL	N	28	119.198	-0.965	81.695	1.00120.31	N
ATOM	23655	CB	VAL	N	28	119.498	-2.058	80.655	1.00121.02	N
ATOM	23656	CG1	VAL	N	28	120.700	-2.878	81.101	1.00121.82	N
ATOM	23657	CG2	VAL	N	28	118.281	-2.940	80.455	1.00122.86	N
ATOM	23658	C	VAL	N	28	120.357	0.022	81.670	1.00119.83	N
ATOM	23659	O	VAL	N	28	120.508	0.780	80.717	1.00119.88	N
ATOM	23660	N	ASN	N	29	121.178	0.010	82.711	1.00120.14	N
ATOM	23661	CA	ASN	N	29	122.317	0.917	82.779	1.00120.82	N
ATOM	23662	CB	ASN	N	29	122.464	1.463	84.199	1.00119.34	N
ATOM	23663	CG	ASN	N	29	121.317	2.368	84.589	1.00117.60	N
ATOM	23664	OD1	ASN	N	29	121.049	3.364	83.919	1.00117.13	N
ATOM	23665	ND2	ASN	N	29	120.632	2.027	85.674	1.00115.37	N
ATOM	23666	C	ASN	N	29	123.611	0.238	82.342	1.00121.51	N
ATOM	23667	O	ASN	N	29	123.718	-0.989	82.379	1.00122.70	N
ATOM	23668	N	VAL	N	30	124.587	1.040	81.921	1.00121.16	N
ATOM	23669	CA	VAL	N	30	125.875	0.515	81.471	1.00120.71	N
ATOM	23670	CB	VAL	N	30	126.876	1.656	81.153	1.00119.98	N
ATOM	23671	CG1	VAL	N	30	128.188	1.074	80.658	1.00119.56	N
ATOM	23672	CG2	VAL	N	30	126.295	2.588	80.104	1.00119.29	N
ATOM	23673	C	VAL	N	30	126.494	-0.400	82.526	1.00120.56	N

ATOM	23674	O	VAL	N	30	126.221	-0.263	83.722	1.00120.81	N
ATOM	23675	N	GLY	N	31	127.328	-1.333	82.077	1.00119.51	N
ATOM	23676	CA	GLY	N	31	127.957	-2.258	83.000	1.00117.87	N
ATOM	23677	C	GLY	N	31	127.052	-3.450	83.236	1.00116.64	N
ATOM	23678	O	GLY	N	31	127.462	-4.598	83.055	1.00116.64	N
ATOM	23679	N	GLN	N	32	125.811	-3.172	83.631	1.00115.21	N
ATOM	23680	CA	GLN	N	32	124.828	-4.221	83.888	1.00112.22	N
ATOM	23681	CB	GLN	N	32	123.514	-3.611	84.387	1.00110.81	N
ATOM	23682	CG	GLN	N	32	123.563	-3.269	85.866	1.00112.45	N
ATOM	23683	CD	GLN	N	32	122.330	-2.543	86.347	1.00113.97	N
ATOM	23684	OE1	GLN	N	32	121.206	-2.988	86.119	1.00114.55	N
ATOM	23685	NE2	GLN	N	32	122.534	-1.420	87.029	1.00114.32	N
ATOM	23686	C	GLN	N	32	124.592	-5.088	82.657	1.00109.43	N
ATOM	23687	O	GLN	N	32	125.263	-4.919	81.636	1.00109.88	N
ATOM	23688	N	ASN	N	33	123.627	-6.000	82.741	1.00104.62	N
ATOM	23689	CA	ASN	N	33	123.384	-6.917	81.637	1.00 99.75	N
ATOM	23690	CB	ASN	N	33	123.951	-8.283	82.031	1.00 97.37	N
ATOM	23691	CG	ASN	N	33	124.121	-9.213	80.855	1.00 95.32	N
ATOM	23692	OD1	ASN	N	33	124.616	-10.324	81.010	1.00 96.24	N
ATOM	23693	ND2	ASN	N	33	123.717	-8.765	79.670	1.00 95.97	N
ATOM	23694	C	ASN	N	33	121.943	-7.084	81.143	1.00 95.53	N
ATOM	23695	O	ASN	N	33	121.122	-7.700	81.818	1.00 94.39	N
ATOM	23696	N	LEU	N	34	121.642	-6.542	79.963	1.00 91.28	N
ATOM	23697	CA	LEU	N	34	120.312	-6.693	79.383	1.00 87.63	N
ATOM	23698	CB	LEU	N	34	120.170	-5.849	78.113	1.00 83.41	N
ATOM	23699	CG	LEU	N	34	118.930	-6.087	77.241	1.00 81.22	N
ATOM	23700	CD1	LEU	N	34	117.677	-6.107	78.093	1.00 81.07	N
ATOM	23701	CD2	LEU	N	34	118.835	-4.996	76.186	1.00 80.66	N
ATOM	23702	C	LEU	N	34	120.191	-8.173	79.043	1.00 87.43	N
ATOM	23703	O	LEU	N	34	121.193	-8.879	79.023	1.00 87.02	N
ATOM	23704	N	VAL	N	35	118.974	-8.647	78.793	1.00 88.09	N
ATOM	23705	CA	VAL	N	35	118.751	-10.057	78.469	1.00 87.89	N
ATOM	23706	CB	VAL	N	35	118.539	-10.907	79.750	1.00 85.32	N
ATOM	23707	CG1	VAL	N	35	118.157	-12.328	79.371	1.00 85.15	N
ATOM	23708	CG2	VAL	N	35	119.803	-10.917	80.592	1.00 84.83	N
ATOM	23709	C	VAL	N	35	117.534	-10.254	77.573	1.00 89.20	N
ATOM	23710	O	VAL	N	35	116.475	-9.670	77.812	1.00 91.03	N
ATOM	23711	N	VAL	N	36	117.687	-11.079	76.542	1.00 88.96	N
ATOM	23712	CA	VAL	N	36	116.580	-11.353	75.632	1.00 90.35	N
ATOM	23713	CB	VAL	N	36	116.767	-10.643	74.270	1.00 90.22	N
ATOM	23714	CG1	VAL	N	36	115.553	-10.894	73.373	1.00 84.31	N
ATOM	23715	CG2	VAL	N	36	116.964	-9.150	74.488	1.00 92.34	N
ATOM	23716	C	VAL	N	36	116.436	-12.850	75.392	1.00 91.04	N
ATOM	23717	O	VAL	N	36	116.785	-13.356	74.328	1.00 92.10	N
ATOM	23718	N	ASP	N	37	115.924	-13.555	76.397	1.00 91.14	N
ATOM	23719	CA	ASP	N	37	115.719	-14.999	76.304	1.00 90.26	N
ATOM	23720	CB	ASP	N	37	115.596	-15.606	77.702	1.00 90.59	N
ATOM	23721	CG	ASP	N	37	114.868	-16.922	77.692	1.00 88.81	N
ATOM	23722	OD1	ASP	N	37	115.286	-17.829	76.943	1.00 89.56	N
ATOM	23723	OD2	ASP	N	37	113.872	-17.045	78.428	1.00 94.00	N
ATOM	23724	C	ASP	N	37	114.474	-15.340	75.484	1.00 86.58	N
ATOM	23725	O	ASP	N	37	113.377	-14.877	75.785	1.00 85.00	N
ATOM	23726	N	LEU	N	38	114.653	-16.161	74.456	1.00 83.99	N
ATOM	23727	CA	LEU	N	38	113.547	-16.538	73.592	1.00 83.63	N
ATOM	23728	CB	LEU	N	38	113.976	-16.426	72.128	1.00 83.42	N
ATOM	23729	CG	LEU	N	38	114.464	-15.039	71.700	1.00 81.15	N
ATOM	23730	CD1	LEU	N	38	114.734	-15.063	70.216	1.00 81.02	N
ATOM	23731	CD2	LEU	N	38	113.428	-13.973	72.029	1.00 75.83	N

ATOM	23732	C	LEU	N	38	112.984	-17.932	73.880	1.00	82.50	N
ATOM	23733	O	LEU	N	38	112.021	-18.366	73.241	1.00	81.06	N
ATOM	23734	N	SER	N	39	113.581	-18.635	74.839	1.00	81.14	N
ATOM	23735	CA	SER	N	39	113.085	-19.954	75.213	1.00	81.67	N
ATOM	23736	CB	SER	N	39	114.129	-20.722	76.027	1.00	82.81	N
ATOM	23737	OG	SER	N	39	114.289	-20.157	77.318	1.00	83.02	N
ATOM	23738	C	SER	N	39	111.855	-19.665	76.074	1.00	82.34	N
ATOM	23739	O	SER	N	39	111.587	-20.319	77.084	1.00	80.35	N
ATOM	23740	N	THR	N	40	111.112	-18.656	75.646	1.00	82.98	N
ATOM	23741	CA	THR	N	40	109.919	-18.214	76.331	1.00	84.84	N
ATOM	23742	CB	THR	N	40	110.283	-17.433	77.622	1.00	82.63	N
ATOM	23743	OG1	THR	N	40	111.079	-18.269	78.472	1.00	78.68	N
ATOM	23744	CG2	THR	N	40	109.027	-17.006	78.375	1.00	78.29	N
ATOM	23745	C	THR	N	40	109.222	-17.294	75.341	1.00	87.99	N
ATOM	23746	O	THR	N	40	108.542	-16.340	75.723	1.00	88.82	N
ATOM	23747	N	GLN	N	41	109.413	-17.591	74.059	1.00	90.41	N
ATOM	23748	CA	GLN	N	41	108.819	-16.809	72.976	1.00	94.48	N
ATOM	23749	CB	GLN	N	41	109.647	-15.552	72.699	1.00	98.02	N
ATOM	23750	CG	GLN	N	41	109.826	-14.590	73.863	1.00	104.47	N
ATOM	23751	CD	GLN	N	41	108.585	-13.775	74.155	1.00	106.46	N
ATOM	23752	OE1	GLN	N	41	107.929	-13.275	73.240	1.00	110.83	N
ATOM	23753	NE2	GLN	N	41	108.265	-13.619	75.435	1.00	109.64	N
ATOM	23754	C	GLN	N	41	108.803	-17.649	71.702	1.00	95.37	N
ATOM	23755	O	GLN	N	41	108.154	-17.286	70.720	1.00	95.30	N
ATOM	23756	N	ILE	N	42	109.533	-18.764	71.722	1.00	95.69	N
ATOM	23757	CA	ILE	N	42	109.637	-19.652	70.561	1.00	94.72	N
ATOM	23758	CB	ILE	N	42	110.805	-19.225	69.654	1.00	94.36	N
ATOM	23759	CG2	ILE	N	42	111.060	-20.284	68.593	1.00	90.21	N
ATOM	23760	CG1	ILE	N	42	110.504	-17.862	69.035	1.00	94.34	N
ATOM	23761	CD1	ILE	N	42	111.721	-17.167	68.486	1.00	97.97	N
ATOM	23762	C	ILE	N	42	109.862	-21.111	70.955	1.00	94.84	N
ATOM	23763	O	ILE	N	42	110.820	-21.439	71.662	1.00	94.54	N
ATOM	23764	N	PHE	N	43	108.984	-21.987	70.475	1.00	93.13	N
ATOM	23765	CA	PHE	N	43	109.082	-23.408	70.785	1.00	89.45	N
ATOM	23766	CB	PHE	N	43	108.064	-23.795	71.861	1.00	84.73	N
ATOM	23767	CG	PHE	N	43	107.769	-22.699	72.838	1.00	80.14	N
ATOM	23768	CD1	PHE	N	43	107.051	-21.577	72.435	1.00	76.75	N
ATOM	23769	CD2	PHE	N	43	108.238	-22.768	74.149	1.00	77.34	N
ATOM	23770	CE1	PHE	N	43	106.805	-20.541	73.315	1.00	76.55	N
ATOM	23771	CE2	PHE	N	43	107.997	-21.732	75.042	1.00	76.85	N
ATOM	23772	CZ	PHE	N	43	107.277	-20.612	74.618	1.00	78.52	N
ATOM	23773	C	PHE	N	43	108.829	-24.238	69.546	1.00	89.60	N
ATOM	23774	O	PHE	N	43	108.030	-23.866	68.688	1.00	89.45	N
ATOM	23775	N	CYS	N	44	109.516	-25.369	69.460	1.00	91.72	N
ATOM	23776	CA	CYS	N	44	109.360	-26.272	68.333	1.00	94.01	N
ATOM	23777	C	CYS	N	44	109.060	-27.653	68.892	1.00	95.84	N
ATOM	23778	O	CYS	N	44	109.172	-27.883	70.093	1.00	94.42	N
ATOM	23779	CB	CYS	N	44	110.641	-26.334	67.504	1.00	92.05	N
ATOM	23780	SG	CYS	N	44	111.364	-24.733	67.029	1.00	90.54	N
ATOM	23781	N	HIS	N	45	108.694	-28.575	68.012	1.00	99.46	N
ATOM	23782	CA	HIS	N	45	108.376	-29.935	68.420	1.00	101.40	N
ATOM	23783	CB	HIS	N	45	106.898	-30.033	68.805	1.00	101.15	N
ATOM	23784	CG	HIS	N	45	105.968	-29.798	67.655	1.00	103.49	N
ATOM	23785	CD2	HIS	N	45	105.061	-30.609	67.061	1.00	105.71	N
ATOM	23786	ND1	HIS	N	45	105.949	-28.618	66.943	1.00	105.20	N
ATOM	23787	CE1	HIS	N	45	105.073	-28.713	65.958	1.00	104.89	N
ATOM	23788	NE2	HIS	N	45	104.520	-29.911	66.007	1.00	106.83	N
ATOM	23789	C	HIS	N	45	108.647	-30.860	67.240	1.00	102.95	N

ATOM	23790	O	HIS	N	45	108.645	-30.426	66.084	1.00101.40	N
ATOM	23791	N	ASN	N	46	108.880	-32.134	67.537	1.00105.14	N
ATOM	23792	CA	ASN	N	46	109.126	-33.131	66.505	1.00104.75	N
ATOM	23793	CB	ASN	N	46	109.903	-34.308	67.092	1.00102.14	N
ATOM	23794	CG	ASN	N	46	110.517	-35.179	66.027	1.00102.89	N
ATOM	23795	OD1	ASN	N	46	109.959	-35.330	64.944	1.00103.18	N
ATOM	23796	ND2	ASN	N	46	111.667	-35.770	66.329	1.00102.18	N
ATOM	23797	C	ASN	N	46	107.756	-33.608	66.015	1.00106.02	N
ATOM	23798	O	ASN	N	46	106.849	-33.831	66.821	1.00106.63	N
ATOM	23799	N	ASP	N	47	107.596	-33.749	64.702	1.00105.90	N
ATOM	23800	CA	ASP	N	47	106.322	-34.205	64.149	1.00106.35	N
ATOM	23801	CB	ASP	N	47	106.061	-33.560	62.789	1.00104.96	N
ATOM	23802	CG	ASP	N	47	105.666	-32.110	62.905	1.00106.64	N
ATOM	23803	OD1	ASP	N	47	104.891	-31.786	63.831	1.00108.58	N
ATOM	23804	OD2	ASP	N	47	106.116	-31.298	62.069	1.00106.47	N
ATOM	23805	C	ASP	N	47	106.260	-35.724	64.007	1.00107.53	N
ATOM	23806	O	ASP	N	47	105.215	-36.335	64.244	1.00109.00	N
ATOM	23807	N	TYR	N	48	107.383	-36.323	63.619	1.00107.19	N
ATOM	23808	CA	TYR	N	48	107.493	-37.771	63.436	1.00106.23	N
ATOM	23809	CB	TYR	N	48	107.866	-38.074	61.980	1.00105.80	N
ATOM	23810	CG	TYR	N	48	106.966	-37.409	60.948	1.00107.45	N
ATOM	23811	CD1	TYR	N	48	107.446	-37.098	59.676	1.00109.00	N
ATOM	23812	CE1	TYR	N	48	106.628	-36.493	58.722	1.00109.38	N
ATOM	23813	CD2	TYR	N	48	105.634	-37.099	61.238	1.00106.79	N
ATOM	23814	CE2	TYR	N	48	104.808	-36.495	60.287	1.00106.59	N
ATOM	23815	CZ	TYR	N	48	105.314	-36.196	59.034	1.00108.52	N
ATOM	23816	OH	TYR	N	48	104.519	-35.599	58.088	1.00107.80	N
ATOM	23817	C	TYR	N	48	108.600	-38.264	64.374	1.00105.44	N
ATOM	23818	O	TYR	N	48	109.634	-38.762	63.924	1.00105.81	N
ATOM	23819	N	PRO	N	49	108.383	-38.144	65.697	1.00103.98	N
ATOM	23820	CD	PRO	N	49	107.139	-37.640	66.308	1.00102.81	N
ATOM	23821	CA	PRO	N	49	109.334	-38.548	66.736	1.00103.15	N
ATOM	23822	CB	PRO	N	49	108.715	-37.963	68.003	1.00103.07	N
ATOM	23823	CG	PRO	N	49	107.265	-38.110	67.740	1.00103.53	N
ATOM	23824	C	PRO	N	49	109.663	-40.026	66.894	1.00102.20	N
ATOM	23825	O	PRO	N	49	110.729	-40.362	67.402	1.00102.58	N
ATOM	23826	N	GLU	N	50	108.764	-40.909	66.474	1.00101.57	N
ATOM	23827	CA	GLU	N	50	109.013	-42.342	66.617	1.00101.49	N
ATOM	23828	CB	GLU	N	50	107.705	-43.125	66.468	1.00103.16	N
ATOM	23829	CG	GLU	N	50	106.919	-43.291	67.763	1.00104.81	N
ATOM	23830	CD	GLU	N	50	106.424	-41.978	68.336	1.00109.00	N
ATOM	23831	OE1	GLU	N	50	105.734	-41.234	67.605	1.00110.26	N
ATOM	23832	OE2	GLU	N	50	106.718	-41.696	69.520	1.00112.11	N
ATOM	23833	C	GLU	N	50	110.059	-42.902	65.653	1.00 99.43	N
ATOM	23834	O	GLU	N	50	110.486	-44.048	65.793	1.00 98.00	N
ATOM	23835	N	THR	N	51	110.477	-42.098	64.682	1.00 98.21	N
ATOM	23836	CA	THR	N	51	111.473	-42.554	63.721	1.00 98.52	N
ATOM	23837	CB	THR	N	51	110.855	-42.782	62.336	1.00101.07	N
ATOM	23838	OG1	THR	N	51	109.655	-43.553	62.466	1.00103.76	N
ATOM	23839	CG2	THR	N	51	111.838	-43.526	61.437	1.00 99.51	N
ATOM	23840	C	THR	N	51	112.574	-41.527	63.558	1.00 96.85	N
ATOM	23841	O	THR	N	51	113.753	-41.821	63.730	1.00 94.65	N
ATOM	23842	N	ILE	N	52	112.167	-40.311	63.229	1.00 97.78	N
ATOM	23843	CA	ILE	N	52	113.102	-39.222	63.007	1.00100.46	N
ATOM	23844	CB	ILE	N	52	112.447	-38.113	62.169	1.00100.49	N
ATOM	23845	CG2	ILE	N	52	113.519	-37.242	61.537	1.00 99.33	N
ATOM	23846	CG1	ILE	N	52	111.563	-38.738	61.086	1.00102.45	N
ATOM	23847	CD1	ILE	N	52	110.745	-37.734	60.304	1.00101.94	N

ATOM	23848	C	ILE	N	52	113.635	-38.582	64.285	1.00101.03	N
ATOM	23849	O	ILE	N	52	112.981	-38.592	65.330	1.00101.19	N
ATOM	23850	N	THR	N	53	114.837	-38.026	64.177	1.00101.45	N
ATOM	23851	CA	THR	N	53	115.491	-37.333	65.281	1.00100.27	N
ATOM	23852	CB	THR	N	53	116.755	-38.092	65.766	1.00102.74	N
ATOM	23853	OG1	THR	N	53	116.396	-39.409	66.207	1.00106.30	N
ATOM	23854	CG2	THR	N	53	117.408	-37.354	66.918	1.00104.90	N
ATOM	23855	C	THR	N	53	115.902	-35.967	64.722	1.00 97.40	N
ATOM	23856	O	THR	N	53	116.813	-35.879	63.892	1.00 95.79	N
ATOM	23857	N	ASP	N	54	115.214	-34.912	65.158	1.00 94.92	N
ATOM	23858	CA	ASP	N	54	115.503	-33.559	64.681	1.00 93.01	N
ATOM	23859	CB	ASP	N	54	114.257	-32.671	64.775	1.00 97.00	N
ATOM	23860	CG	ASP	N	54	113.240	-32.969	63.683	1.00 99.19	N
ATOM	23861	OD1	ASP	N	54	113.586	-32.853	62.483	1.00 98.39	N
ATOM	23862	OD2	ASP	N	54	112.089	-33.314	64.030	1.00101.20	N
ATOM	23863	C	ASP	N	54	116.668	-32.873	65.383	1.00 88.98	N
ATOM	23864	O	ASP	N	54	116.811	-32.934	66.607	1.00 87.35	N
ATOM	23865	N	TYR	N	55	117.486	-32.209	64.573	1.00 86.03	N
ATOM	23866	CA	TYR	N	55	118.673	-31.500	65.026	1.00 82.46	N
ATOM	23867	CB	TYR	N	55	119.884	-32.031	64.267	1.00 80.11	N
ATOM	23868	CG	TYR	N	55	120.114	-33.509	64.462	1.00 79.02	N
ATOM	23869	CD1	TYR	N	55	120.789	-34.264	63.499	1.00 79.20	N
ATOM	23870	CE1	TYR	N	55	121.042	-35.617	63.694	1.00 78.39	N
ATOM	23871	CD2	TYR	N	55	119.695	-34.148	65.626	1.00 77.99	N
ATOM	23872	CE2	TYR	N	55	119.943	-35.496	65.832	1.00 80.13	N
ATOM	23873	CZ	TYR	N	55	120.618	-36.226	64.865	1.00 80.79	N
ATOM	23874	OH	TYR	N	55	120.876	-37.561	65.081	1.00 83.09	N
ATOM	23875	C	TYR	N	55	118.534	-30.004	64.788	1.00 80.18	N
ATOM	23876	O	TYR	N	55	118.629	-29.535	63.653	1.00 81.22	N
ATOM	23877	N	VAL	N	56	118.304	-29.261	65.863	1.00 77.70	N
ATOM	23878	CA	VAL	N	56	118.153	-27.820	65.765	1.00 77.49	N
ATOM	23879	CB	VAL	N	56	117.015	-27.317	66.667	1.00 77.18	N
ATOM	23880	CG1	VAL	N	56	116.915	-25.796	66.606	1.00 72.93	N
ATOM	23881	CG2	VAL	N	56	115.722	-27.941	66.223	1.00 75.34	N
ATOM	23882	C	VAL	N	56	119.447	-27.119	66.147	1.00 78.54	N
ATOM	23883	O	VAL	N	56	120.114	-27.482	67.116	1.00 76.08	N
ATOM	23884	N	THR	N	57	119.785	-26.103	65.368	1.00 80.72	N
ATOM	23885	CA	THR	N	57	120.994	-25.339	65.582	1.00 82.94	N
ATOM	23886	CB	THR	N	57	122.124	-25.881	64.698	1.00 82.76	N
ATOM	23887	OG1	THR	N	57	123.170	-24.910	64.597	1.00 84.27	N
ATOM	23888	CG2	THR	N	57	121.593	-26.193	63.314	1.00 85.00	N
ATOM	23889	C	THR	N	57	120.768	-23.878	65.230	1.00 84.65	N
ATOM	23890	O	THR	N	57	119.881	-23.555	64.438	1.00 87.15	N
ATOM	23891	N	LEU	N	58	121.572	-23.003	65.830	1.00 84.65	N
ATOM	23892	CA	LEU	N	58	121.508	-21.565	65.572	1.00 82.64	N
ATOM	23893	CB	LEU	N	58	121.749	-20.773	66.868	1.00 83.44	N
ATOM	23894	CG	LEU	N	58	121.855	-19.241	66.768	1.00 84.94	N
ATOM	23895	CD1	LEU	N	58	120.557	-18.641	66.235	1.00 80.77	N
ATOM	23896	CD2	LEU	N	58	122.184	-18.671	68.138	1.00 82.37	N
ATOM	23897	C	LEU	N	58	122.592	-21.238	64.543	1.00 80.94	N
ATOM	23898	O	LEU	N	58	123.775	-21.132	64.881	1.00 80.11	N
ATOM	23899	N	GLN	N	59	122.176	-21.098	63.288	1.00 79.26	N
ATOM	23900	CA	GLN	N	59	123.088	-20.799	62.190	1.00 78.41	N
ATOM	23901	CB	GLN	N	59	122.341	-20.890	60.862	1.00 79.38	N
ATOM	23902	CG	GLN	N	59	122.359	-22.248	60.203	1.00 84.90	N
ATOM	23903	CD	GLN	N	59	123.381	-22.339	59.089	1.00 87.94	N
ATOM	23904	OE1	GLN	N	59	124.586	-22.354	59.336	1.00 91.07	N
ATOM	23905	NE2	GLN	N	59	122.902	-22.391	57.847	1.00 91.12	N

ATOM	23906	C	GLN	N	59	123.727	-19.425	62.289	1.00	77.29	N
ATOM	23907	O	GLN	N	59	124.932	-19.289	62.486	1.00	76.15	N
ATOM	23908	N	ARG	N	60	122.897	-18.406	62.135	1.00	78.58	N
ATOM	23909	CA	ARG	N	60	123.350	-17.028	62.166	1.00	78.90	N
ATOM	23910	CB	ARG	N	60	123.024	-16.359	60.825	1.00	80.55	N
ATOM	23911	CG	ARG	N	60	123.423	-14.900	60.704	1.00	87.75	N
ATOM	23912	CD	ARG	N	60	124.930	-14.736	60.669	1.00	95.05	N
ATOM	23913	NE	ARG	N	60	125.539	-15.581	59.644	1.00	103.47	N
ATOM	23914	CZ	ARG	N	60	126.821	-15.533	59.288	1.00	107.42	N
ATOM	23915	NH1	ARG	N	60	127.648	-14.671	59.871	1.00	108.66	N
ATOM	23916	NH2	ARG	N	60	127.279	-16.358	58.352	1.00	108.16	N
ATOM	23917	C	ARG	N	60	122.712	-16.245	63.307	1.00	77.29	N
ATOM	23918	O	ARG	N	60	121.754	-16.693	63.943	1.00	75.70	N
ATOM	23919	N	GLY	N	61	123.272	-15.071	63.560	1.00	76.90	N
ATOM	23920	CA	GLY	N	61	122.775	-14.199	64.600	1.00	77.64	N
ATOM	23921	C	GLY	N	61	123.220	-12.811	64.201	1.00	77.40	N
ATOM	23922	O	GLY	N	61	124.406	-12.494	64.286	1.00	79.32	N
ATOM	23923	N	SER	N	62	122.280	-11.988	63.749	1.00	76.52	N
ATOM	23924	CA	SER	N	62	122.599	-10.632	63.327	1.00	76.75	N
ATOM	23925	CB	SER	N	62	121.947	-10.361	61.975	1.00	75.38	N
ATOM	23926	OG	SER	N	62	122.202	-11.435	61.090	1.00	70.96	N
ATOM	23927	C	SER	N	62	122.150	-9.584	64.354	1.00	76.92	N
ATOM	23928	O	SER	N	62	121.283	-9.844	65.181	1.00	75.95	N
ATOM	23929	N	ALA	N	63	122.756	-8.403	64.300	1.00	76.29	N
ATOM	23930	CA	ALA	N	63	122.417	-7.330	65.226	1.00	74.90	N
ATOM	23931	CB	ALA	N	63	123.598	-7.050	66.157	1.00	74.88	N
ATOM	23932	C	ALA	N	63	122.044	-6.068	64.449	1.00	73.93	N
ATOM	23933	O	ALA	N	63	122.625	-5.783	63.397	1.00	72.79	N
ATOM	23934	N	TYR	N	64	121.063	-5.325	64.961	1.00	74.17	N
ATOM	23935	CA	TYR	N	64	120.612	-4.096	64.313	1.00	71.44	N
ATOM	23936	CB	TYR	N	64	119.357	-4.361	63.479	1.00	73.34	N
ATOM	23937	CG	TYR	N	64	119.503	-5.525	62.525	1.00	77.23	N
ATOM	23938	CD1	TYR	N	64	119.559	-6.838	62.998	1.00	81.70	N
ATOM	23939	CE1	TYR	N	64	119.771	-7.918	62.132	1.00	80.89	N
ATOM	23940	CD2	TYR	N	64	119.652	-5.317	61.155	1.00	78.76	N
ATOM	23941	CE2	TYR	N	64	119.861	-6.390	60.275	1.00	79.60	N
ATOM	23942	CZ	TYR	N	64	119.923	-7.686	60.774	1.00	80.89	N
ATOM	23943	OH	TYR	N	64	120.159	-8.739	59.921	1.00	81.02	N
ATOM	23944	C	TYR	N	64	120.323	-3.029	65.352	1.00	68.53	N
ATOM	23945	O	TYR	N	64	120.323	-3.306	66.552	1.00	67.48	N
ATOM	23946	N	GLY	N	65	120.092	-1.808	64.882	1.00	67.66	N
ATOM	23947	CA	GLY	N	65	119.799	-0.704	65.778	1.00	69.04	N
ATOM	23948	C	GLY	N	65	120.705	-0.558	66.993	1.00	70.18	N
ATOM	23949	O	GLY	N	65	121.908	-0.811	66.939	1.00	69.77	N
ATOM	23950	N	GLY	N	66	120.108	-0.146	68.102	1.00	71.54	N
ATOM	23951	CA	GLY	N	66	120.859	0.057	69.324	1.00	75.68	N
ATOM	23952	C	GLY	N	66	121.612	-1.142	69.864	1.00	79.27	N
ATOM	23953	O	GLY	N	66	122.499	-0.986	70.703	1.00	81.55	N
ATOM	23954	N	VAL	N	67	121.268	-2.344	69.417	1.00	80.39	N
ATOM	23955	CA	VAL	N	67	121.980	-3.523	69.901	1.00	81.44	N
ATOM	23956	CB	VAL	N	67	121.161	-4.820	69.675	1.00	84.58	N
ATOM	23957	CG1	VAL	N	67	122.051	-6.046	69.905	1.00	83.85	N
ATOM	23958	CG2	VAL	N	67	119.969	-4.858	70.635	1.00	81.84	N
ATOM	23959	C	VAL	N	67	123.310	-3.622	69.158	1.00	79.17	N
ATOM	23960	O	VAL	N	67	124.361	-3.891	69.749	1.00	77.29	N
ATOM	23961	N	LEU	N	68	123.247	-3.381	67.854	1.00	76.37	N
ATOM	23962	CA	LEU	N	68	124.418	-3.428	66.998	1.00	74.25	N
ATOM	23963	CB	LEU	N	68	123.985	-3.183	65.552	1.00	67.95	N

ATOM	23964	CG	LEU	N	68	125.079	-3.185	64.490	1.00	65.61	N
ATOM	23965	CD1	LEU	N	68	125.907	-4.464	64.584	1.00	64.94	N
ATOM	23966	CD2	LEU	N	68	124.434	-3.064	63.131	1.00	60.85	N
ATOM	23967	C	LEU	N	68	125.476	-2.397	67.408	1.00	75.10	N
ATOM	23968	O	LEU	N	68	126.677	-2.674	67.372	1.00	78.44	N
ATOM	23969	N	SER	N	69	125.022	-1.220	67.824	1.00	71.86	N
ATOM	23970	CA	SER	N	69	125.926	-0.146	68.197	1.00	67.74	N
ATOM	23971	CB	SER	N	69	125.502	1.119	67.466	1.00	69.90	N
ATOM	23972	OG	SER	N	69	124.145	1.405	67.746	1.00	70.55	N
ATOM	23973	C	SER	N	69	126.070	0.179	69.680	1.00	64.88	N
ATOM	23974	O	SER	N	69	127.115	0.660	70.103	1.00	62.94	N
ATOM	23975	N	ASN	N	70	125.043	-0.076	70.477	1.00	63.91	N
ATOM	23976	CA	ASN	N	70	125.127	0.270	71.887	1.00	63.53	N
ATOM	23977	CB	ASN	N	70	123.845	0.975	72.307	1.00	65.93	N
ATOM	23978	CG	ASN	N	70	123.705	2.344	71.668	1.00	72.26	N
ATOM	23979	OD1	ASN	N	70	124.345	3.312	72.101	1.00	76.10	N
ATOM	23980	ND2	ASN	N	70	122.881	2.433	70.622	1.00	67.52	N
ATOM	23981	C	ASN	N	70	125.455	-0.828	72.881	1.00	65.34	N
ATOM	23982	O	ASN	N	70	125.571	-0.554	74.083	1.00	67.07	N
ATOM	23983	N	PHE	N	71	125.618	-2.061	72.406	1.00	65.30	N
ATOM	23984	CA	PHE	N	71	125.943	-3.152	73.319	1.00	62.89	N
ATOM	23985	CB	PHE	N	71	124.716	-4.010	73.633	1.00	63.18	N
ATOM	23986	CG	PHE	N	71	123.555	-3.237	74.177	1.00	61.82	N
ATOM	23987	CD1	PHE	N	71	122.729	-2.503	73.321	1.00	59.81	N
ATOM	23988	CD2	PHE	N	71	123.287	-3.236	75.542	1.00	57.84	N
ATOM	23989	CE1	PHE	N	71	121.653	-1.780	73.819	1.00	59.16	N
ATOM	23990	CE2	PHE	N	71	122.212	-2.516	76.053	1.00	60.63	N
ATOM	23991	CZ	PHE	N	71	121.393	-1.786	75.191	1.00	59.45	N
ATOM	23992	C	PHE	N	71	127.013	-4.082	72.821	1.00	61.20	N
ATOM	23993	O	PHE	N	71	127.303	-4.152	71.638	1.00	60.09	N
ATOM	23994	N	SER	N	72	127.587	-4.801	73.771	1.00	62.42	N
ATOM	23995	CA	SER	N	72	128.603	-5.804	73.520	1.00	63.64	N
ATOM	23996	CB	SER	N	72	129.842	-5.542	74.375	1.00	59.54	N
ATOM	23997	OG	SER	N	72	129.511	-5.512	75.754	1.00	58.59	N
ATOM	23998	C	SER	N	72	127.881	-7.035	74.031	1.00	68.20	N
ATOM	23999	O	SER	N	72	126.985	-6.922	74.866	1.00	67.55	N
ATOM	24000	N	GLY	N	73	128.239	-8.210	73.542	1.00	74.23	N
ATOM	24001	CA	GLY	N	73	127.547	-9.378	74.042	1.00	78.18	N
ATOM	24002	C	GLY	N	73	127.667	-10.677	73.281	1.00	77.91	N
ATOM	24003	O	GLY	N	73	128.376	-10.790	72.279	1.00	77.56	N
ATOM	24004	N	THR	N	74	126.930	-11.660	73.785	1.00	78.02	N
ATOM	24005	CA	THR	N	74	126.914	-12.998	73.230	1.00	78.13	N
ATOM	24006	CB	THR	N	74	127.872	-13.893	74.002	1.00	76.32	N
ATOM	24007	OG1	THR	N	74	127.548	-13.824	75.394	1.00	73.39	N
ATOM	24008	CG2	THR	N	74	129.308	-13.446	73.790	1.00	79.43	N
ATOM	24009	C	THR	N	74	125.532	-13.633	73.308	1.00	77.13	N
ATOM	24010	O	THR	N	74	124.618	-13.106	73.943	1.00	74.81	N
ATOM	24011	N	VAL	N	75	125.404	-14.781	72.653	1.00	77.53	N
ATOM	24012	CA	VAL	N	75	124.166	-15.537	72.643	1.00	75.09	N
ATOM	24013	CB	VAL	N	75	123.680	-15.796	71.200	1.00	73.75	N
ATOM	24014	CG1	VAL	N	75	124.741	-16.553	70.417	1.00	74.59	N
ATOM	24015	CG2	VAL	N	75	122.380	-16.567	71.224	1.00	73.48	N
ATOM	24016	C	VAL	N	75	124.421	-16.870	73.340	1.00	75.19	N
ATOM	24017	O	VAL	N	75	125.302	-17.637	72.943	1.00	74.11	N
ATOM	24018	N	LYS	N	76	123.667	-17.119	74.405	1.00	76.01	N
ATOM	24019	CA	LYS	N	76	123.769	-18.365	75.158	1.00	75.48	N
ATOM	24020	CB	LYS	N	76	123.237	-18.149	76.580	1.00	76.94	N
ATOM	24021	CG	LYS	N	76	122.738	-19.391	77.303	1.00	76.96	N

ATOM	24022	CD	LYS	N	76	121.860	-18.970	78.492	1.00	82.41	N
ATOM	24023	CE	LYS	N	76	121.111	-20.139	79.140	1.00	83.73	N
ATOM	24024	NZ	LYS	N	76	120.337	-19.703	80.348	1.00	80.94	N
ATOM	24025	C	LYS	N	76	122.904	-19.375	74.407	1.00	73.65	N
ATOM	24026	O	LYS	N	76	121.733	-19.102	74.123	1.00	72.77	N
ATOM	24027	N	TYR	N	77	123.477	-20.522	74.060	1.00	71.62	N
ATOM	24028	CA	TYR	N	77	122.717	-21.536	73.342	1.00	72.70	N
ATOM	24029	CB	TYR	N	77	123.073	-21.533	71.863	1.00	71.66	N
ATOM	24030	CG	TYR	N	77	122.235	-22.489	71.046	1.00	70.99	N
ATOM	24031	CD1	TYR	N	77	120.944	-22.149	70.649	1.00	73.44	N
ATOM	24032	CE1	TYR	N	77	120.164	-23.024	69.892	1.00	73.81	N
ATOM	24033	CD2	TYR	N	77	122.732	-23.736	70.670	1.00	72.15	N
ATOM	24034	CE2	TYR	N	77	121.964	-24.620	69.912	1.00	74.62	N
ATOM	24035	CZ	TYR	N	77	120.679	-24.256	69.524	1.00	75.40	N
ATOM	24036	OH	TYR	N	77	119.918	-25.106	68.747	1.00	76.55	N
ATOM	24037	C	TYR	N	77	122.939	-22.935	73.889	1.00	75.10	N
ATOM	24038	O	TYR	N	77	123.999	-23.535	73.685	1.00	76.21	N
ATOM	24039	N	SER	N	78	121.928	-23.457	74.572	1.00	76.74	N
ATOM	24040	CA	SER	N	78	122.008	-24.793	75.141	1.00	81.03	N
ATOM	24041	CB	SER	N	78	122.019	-25.848	74.026	1.00	83.01	N
ATOM	24042	OG	SER	N	78	121.922	-27.166	74.549	1.00	82.25	N
ATOM	24043	C	SER	N	78	123.270	-24.916	75.980	1.00	82.82	N
ATOM	24044	O	SER	N	78	124.135	-25.752	75.709	1.00	86.16	N
ATOM	24045	N	GLY	N	79	123.376	-24.076	76.999	1.00	83.08	N
ATOM	24046	CA	GLY	N	79	124.543	-24.126	77.856	1.00	82.98	N
ATOM	24047	C	GLY	N	79	125.618	-23.160	77.414	1.00	79.66	N
ATOM	24048	O	GLY	N	79	125.602	-21.998	77.815	1.00	80.12	N
ATOM	24049	N	SER	N	80	126.546	-23.637	76.586	1.00	77.24	N
ATOM	24050	CA	SER	N	80	127.638	-22.791	76.102	1.00	76.29	N
ATOM	24051	CB	SER	N	80	128.481	-23.525	75.044	1.00	75.88	N
ATOM	24052	OG	SER	N	80	129.303	-24.523	75.626	1.00	71.30	N
ATOM	24053	C	SER	N	80	127.146	-21.463	75.528	1.00	73.77	N
ATOM	24054	O	SER	N	80	125.991	-21.343	75.099	1.00	74.17	N
ATOM	24055	N	SER	N	81	128.033	-20.468	75.542	1.00	69.28	N
ATOM	24056	CA	SER	N	81	127.737	-19.133	75.032	1.00	63.46	N
ATOM	24057	CB	SER	N	81	128.015	-18.077	76.099	1.00	65.22	N
ATOM	24058	OG	SER	N	81	127.283	-18.345	77.280	1.00	69.59	N
ATOM	24059	C	SER	N	81	128.640	-18.893	73.841	1.00	59.89	N
ATOM	24060	O	SER	N	81	129.715	-19.482	73.738	1.00	57.81	N
ATOM	24061	N	TYR	N	82	128.203	-18.031	72.936	1.00	58.28	N
ATOM	24062	CA	TYR	N	82	128.987	-17.740	71.749	1.00	57.10	N
ATOM	24063	CB	TYR	N	82	128.471	-18.595	70.579	1.00	57.48	N
ATOM	24064	CG	TYR	N	82	128.305	-20.069	70.918	1.00	61.94	N
ATOM	24065	CD1	TYR	N	82	127.182	-20.531	71.617	1.00	63.89	N
ATOM	24066	CE1	TYR	N	82	127.058	-21.882	71.990	1.00	59.19	N
ATOM	24067	CD2	TYR	N	82	129.296	-20.997	70.592	1.00	63.14	N
ATOM	24068	CE2	TYR	N	82	129.179	-22.345	70.957	1.00	61.23	N
ATOM	24069	CZ	TYR	N	82	128.062	-22.778	71.659	1.00	60.69	N
ATOM	24070	OH	TYR	N	82	127.966	-24.100	72.053	1.00	60.45	N
ATOM	24071	C	TYR	N	82	128.944	-16.241	71.392	1.00	55.79	N
ATOM	24072	O	TYR	N	82	128.014	-15.520	71.754	1.00	52.53	N
ATOM	24073	N	PRO	N	83	129.963	-15.751	70.675	1.00	54.19	N
ATOM	24074	CD	PRO	N	83	131.160	-16.417	70.134	1.00	50.04	N
ATOM	24075	CA	PRO	N	83	129.948	-14.334	70.321	1.00	54.15	N
ATOM	24076	CB	PRO	N	83	131.186	-14.187	69.441	1.00	49.23	N
ATOM	24077	CG	PRO	N	83	132.090	-15.260	69.931	1.00	49.30	N
ATOM	24078	C	PRO	N	83	128.681	-13.940	69.564	1.00	56.37	N
ATOM	24079	O	PRO	N	83	128.234	-14.671	68.674	1.00	57.87	N

ATOM	24080	N	PHE	N	84	128.095	-12.801	69.929	1.00	55.24	N
ATOM	24081	CA	PHE	N	84	126.927	-12.297	69.220	1.00	54.63	N
ATOM	24082	CB	PHE	N	84	125.647	-12.365	70.039	1.00	54.02	N
ATOM	24083	CG	PHE	N	84	124.458	-11.812	69.303	1.00	51.82	N
ATOM	24084	CD1	PHE	N	84	124.017	-12.413	68.129	1.00	53.38	N
ATOM	24085	CD2	PHE	N	84	123.825	-10.654	69.731	1.00	50.90	N
ATOM	24086	CE1	PHE	N	84	122.965	-11.862	67.388	1.00	51.58	N
ATOM	24087	CE2	PHE	N	84	122.774	-10.099	68.995	1.00	49.38	N
ATOM	24088	CZ	PHE	N	84	122.347	-10.704	67.823	1.00	46.64	N
ATOM	24089	C	PHE	N	84	127.165	-10.846	68.866	1.00	56.60	N
ATOM	24090	O	PHE	N	84	127.496	-10.041	69.737	1.00	58.01	N
ATOM	24091	N	PRO	N	85	126.995	-10.484	67.579	1.00	58.97	N
ATOM	24092	CD	PRO	N	85	127.136	-9.096	67.106	1.00	57.17	N
ATOM	24093	CA	PRO	N	85	126.595	-11.359	66.471	1.00	59.14	N
ATOM	24094	CB	PRO	N	85	126.755	-10.465	65.252	1.00	54.00	N
ATOM	24095	CG	PRO	N	85	126.391	-9.135	65.789	1.00	58.46	N
ATOM	24096	C	PRO	N	85	127.429	-12.624	66.361	1.00	61.51	N
ATOM	24097	O	PRO	N	85	128.623	-12.623	66.657	1.00	62.64	N
ATOM	24098	N	THR	N	86	126.775	-13.700	65.940	1.00	64.44	N
ATOM	24099	CA	THR	N	86	127.411	-15.002	65.775	1.00	63.85	N
ATOM	24100	CB	THR	N	86	126.371	-16.065	65.405	1.00	63.31	N
ATOM	24101	OG1	THR	N	86	125.889	-15.819	64.074	1.00	57.69	N
ATOM	24102	CG2	THR	N	86	125.205	-16.015	66.384	1.00	63.98	N
ATOM	24103	C	THR	N	86	128.463	-14.961	64.670	1.00	64.65	N
ATOM	24104	O	THR	N	86	128.349	-14.186	63.717	1.00	65.78	N
ATOM	24105	N	THR	N	87	129.477	-15.812	64.805	1.00	62.95	N
ATOM	24106	CA	THR	N	87	130.562	-15.894	63.837	1.00	60.84	N
ATOM	24107	CB	THR	N	87	131.936	-15.687	64.511	1.00	58.69	N
ATOM	24108	OG1	THR	N	87	132.254	-16.834	65.312	1.00	62.28	N
ATOM	24109	CG2	THR	N	87	131.920	-14.453	65.396	1.00	55.23	N
ATOM	24110	C	THR	N	87	130.568	-17.264	63.179	1.00	62.10	N
ATOM	24111	O	THR	N	87	131.388	-17.540	62.310	1.00	63.72	N
ATOM	24112	N	SER	N	88	129.660	-18.131	63.604	1.00	64.18	N
ATOM	24113	CA	SER	N	88	129.587	-19.470	63.038	1.00	64.96	N
ATOM	24114	CB	SER	N	88	130.878	-20.228	63.318	1.00	62.51	N
ATOM	24115	OG	SER	N	88	131.026	-20.411	64.708	1.00	71.68	N
ATOM	24116	C	SER	N	88	128.411	-20.245	63.611	1.00	65.09	N
ATOM	24117	O	SER	N	88	127.861	-19.888	64.656	1.00	58.45	N
ATOM	24118	N	GLU	N	89	128.032	-21.311	62.909	1.00	70.00	N
ATOM	24119	CA	GLU	N	89	126.916	-22.152	63.320	1.00	73.50	N
ATOM	24120	CB	GLU	N	89	126.603	-23.184	62.245	1.00	73.09	N
ATOM	24121	CG	GLU	N	89	125.655	-24.262	62.712	1.00	72.93	N
ATOM	24122	CD	GLU	N	89	125.256	-25.191	61.594	1.00	77.43	N
ATOM	24123	OE1	GLU	N	89	126.165	-25.743	60.926	1.00	77.32	N
ATOM	24124	OE2	GLU	N	89	124.032	-25.365	61.388	1.00	76.45	N
ATOM	24125	C	GLU	N	89	127.186	-22.857	64.637	1.00	76.35	N
ATOM	24126	O	GLU	N	89	128.273	-23.395	64.865	1.00	78.35	N
ATOM	24127	N	THR	N	90	126.167	-22.867	65.485	1.00	75.57	N
ATOM	24128	CA	THR	N	90	126.246	-23.463	66.807	1.00	74.65	N
ATOM	24129	CB	THR	N	90	125.136	-22.858	67.691	1.00	72.58	N
ATOM	24130	OG1	THR	N	90	125.424	-23.092	69.068	1.00	74.39	N
ATOM	24131	CG2	THR	N	90	123.805	-23.478	67.360	1.00	71.41	N
ATOM	24132	C	THR	N	90	126.108	-24.990	66.779	1.00	74.98	N
ATOM	24133	O	THR	N	90	125.700	-25.570	65.770	1.00	75.56	N
ATOM	24134	N	PRO	N	91	126.492	-25.666	67.877	1.00	74.80	N
ATOM	24135	CD	PRO	N	91	127.330	-25.176	68.985	1.00	73.36	N
ATOM	24136	CA	PRO	N	91	126.375	-27.126	67.930	1.00	75.86	N
ATOM	24137	CB	PRO	N	91	126.939	-27.463	69.303	1.00	74.73	N

ATOM	24138	CG	PRO	N	91	128.007	-26.443	69.468	1.00	75.42	N
ATOM	24139	C	PRO	N	91	124.893	-27.456	67.819	1.00	77.18	N
ATOM	24140	O	PRO	N	91	124.058	-26.574	68.013	1.00	78.98	N
ATOM	24141	N	ARG	N	92	124.557	-28.708	67.528	1.00	79.52	N
ATOM	24142	CA	ARG	N	92	123.152	-29.080	67.382	1.00	82.61	N
ATOM	24143	CB	ARG	N	92	122.978	-30.051	66.206	1.00	85.97	N
ATOM	24144	CG	ARG	N	92	123.703	-31.386	66.351	1.00	94.71	N
ATOM	24145	CD	ARG	N	92	123.444	-32.274	65.133	1.00	99.02	N
ATOM	24146	NE	ARG	N	92	124.110	-33.575	65.212	1.00	104.44	N
ATOM	24147	CZ	ARG	N	92	123.882	-34.488	66.155	1.00	107.01	N
ATOM	24148	NH1	ARG	N	92	122.997	-34.254	67.118	1.00	106.75	N
ATOM	24149	NH2	ARG	N	92	124.537	-35.643	66.131	1.00	109.49	N
ATOM	24150	C	ARG	N	92	122.498	-29.670	68.628	1.00	83.19	N
ATOM	24151	O	ARG	N	92	123.127	-30.391	69.402	1.00	83.51	N
ATOM	24152	N	VAL	N	93	121.222	-29.340	68.806	1.00	83.37	N
ATOM	24153	CA	VAL	N	93	120.418	-29.822	69.923	1.00	84.88	N
ATOM	24154	CB	VAL	N	93	119.774	-28.644	70.673	1.00	85.94	N
ATOM	24155	CG1	VAL	N	93	118.884	-29.165	71.796	1.00	88.31	N
ATOM	24156	CG2	VAL	N	93	120.860	-27.726	71.217	1.00	84.11	N
ATOM	24157	C	VAL	N	93	119.316	-30.727	69.347	1.00	86.36	N
ATOM	24158	O	VAL	N	93	118.746	-30.410	68.298	1.00	85.88	N
ATOM	24159	N	VAL	N	94	119.015	-31.840	70.022	1.00	86.97	N
ATOM	24160	CA	VAL	N	94	118.001	-32.785	69.533	1.00	84.28	N
ATOM	24161	CB	VAL	N	94	118.299	-34.245	69.977	1.00	81.91	N
ATOM	24162	CG1	VAL	N	94	119.714	-34.630	69.590	1.00	79.95	N
ATOM	24163	CG2	VAL	N	94	118.083	-34.403	71.473	1.00	83.03	N
ATOM	24164	C	VAL	N	94	116.566	-32.478	69.934	1.00	84.65	N
ATOM	24165	O	VAL	N	94	116.297	-31.987	71.031	1.00	83.83	N
ATOM	24166	N	TYR	N	95	115.649	-32.780	69.019	1.00	87.14	N
ATOM	24167	CA	TYR	N	95	114.219	-32.578	69.234	1.00	88.17	N
ATOM	24168	CB	TYR	N	95	113.716	-31.433	68.356	1.00	85.54	N
ATOM	24169	CG	TYR	N	95	113.970	-30.101	69.000	1.00	86.44	N
ATOM	24170	CD1	TYR	N	95	115.266	-29.660	69.237	1.00	87.56	N
ATOM	24171	CE1	TYR	N	95	115.507	-28.477	69.914	1.00	88.09	N
ATOM	24172	CD2	TYR	N	95	112.915	-29.314	69.453	1.00	89.24	N
ATOM	24173	CE2	TYR	N	95	113.144	-28.125	70.131	1.00	88.30	N
ATOM	24174	CZ	TYR	N	95	114.443	-27.717	70.360	1.00	88.47	N
ATOM	24175	OH	TYR	N	95	114.683	-26.563	71.056	1.00	89.13	N
ATOM	24176	C	TYR	N	95	113.451	-33.864	68.949	1.00	88.84	N
ATOM	24177	O	TYR	N	95	113.353	-34.305	67.807	1.00	88.44	N
ATOM	24178	N	ASN	N	96	112.914	-34.467	70.003	1.00	90.83	N
ATOM	24179	CA	ASN	N	96	112.183	-35.719	69.868	1.00	93.06	N
ATOM	24180	CB	ASN	N	96	113.123	-36.891	70.197	1.00	95.20	N
ATOM	24181	CG	ASN	N	96	113.962	-36.642	71.448	1.00	100.57	N
ATOM	24182	OD1	ASN	N	96	114.928	-37.362	71.714	1.00	101.77	N
ATOM	24183	ND2	ASN	N	96	113.593	-35.625	72.224	1.00	101.23	N
ATOM	24184	C	ASN	N	96	110.907	-35.798	70.715	1.00	93.41	N
ATOM	24185	O	ASN	N	96	110.900	-36.391	71.798	1.00	93.30	N
ATOM	24186	N	SER	N	97	109.832	-35.199	70.201	1.00	92.92	N
ATOM	24187	CA	SER	N	97	108.528	-35.185	70.867	1.00	92.61	N
ATOM	24188	CB	SER	N	97	108.675	-34.834	72.349	1.00	93.64	N
ATOM	24189	OG	SER	N	97	107.405	-34.697	72.964	1.00	96.48	N
ATOM	24190	C	SER	N	97	107.613	-34.167	70.206	1.00	91.97	N
ATOM	24191	O	SER	N	97	108.066	-33.103	69.794	1.00	91.21	N
ATOM	24192	N	ARG	N	98	106.327	-34.490	70.101	1.00	92.96	N
ATOM	24193	CA	ARG	N	98	105.372	-33.569	69.491	1.00	92.49	N
ATOM	24194	CB	ARG	N	98	104.107	-34.305	69.049	1.00	93.81	N
ATOM	24195	CG	ARG	N	98	104.372	-35.344	67.971	1.00	97.07	N

ATOM	24196	CD	ARG	N	98	103.088	-35.913	67.380	1.00	98.80	N
ATOM	24197	NE	ARG	N	98	103.358	-37.053	66.504	1.00	98.30	N
ATOM	24198	CZ	ARG	N	98	103.860	-38.213	66.922	1.00	99.11	N
ATOM	24199	NH1	ARG	N	98	104.146	-38.398	68.205	1.00	99.01	N
ATOM	24200	NH2	ARG	N	98	104.083	-39.192	66.057	1.00	100.89	N
ATOM	24201	C	ARG	N	98	105.026	-32.489	70.492	1.00	91.61	N
ATOM	24202	O	ARG	N	98	104.235	-31.590	70.213	1.00	90.45	N
ATOM	24203	N	THR	N	99	105.629	-32.594	71.670	1.00	93.01	N
ATOM	24204	CA	THR	N	99	105.422	-31.615	72.725	1.00	94.66	N
ATOM	24205	CB	THR	N	99	105.758	-32.209	74.110	1.00	94.07	N
ATOM	24206	OG1	THR	N	99	104.875	-33.302	74.387	1.00	92.60	N
ATOM	24207	CG2	THR	N	99	105.618	-31.148	75.200	1.00	94.33	N
ATOM	24208	C	THR	N	99	106.339	-30.420	72.449	1.00	96.25	N
ATOM	24209	O	THR	N	99	107.571	-30.538	72.465	1.00	95.23	N
ATOM	24210	N	ASP	N	100	105.728	-29.272	72.186	1.00	96.31	N
ATOM	24211	CA	ASP	N	100	106.477	-28.058	71.897	1.00	97.68	N
ATOM	24212	CB	ASP	N	100	105.516	-26.882	71.767	1.00	96.56	N
ATOM	24213	CG	ASP	N	100	104.611	-27.012	70.575	1.00	96.62	N
ATOM	24214	OD1	ASP	N	100	105.087	-26.790	69.439	1.00	92.76	N
ATOM	24215	OD2	ASP	N	100	103.425	-27.348	70.780	1.00	100.01	N
ATOM	24216	C	ASP	N	100	107.556	-27.710	72.919	1.00	98.52	N
ATOM	24217	O	ASP	N	100	107.262	-27.192	73.996	1.00	97.52	N
ATOM	24218	N	LYS	N	101	108.805	-28.006	72.572	1.00	100.35	N
ATOM	24219	CA	LYS	N	101	109.948	-27.690	73.424	1.00	100.34	N
ATOM	24220	CB	LYS	N	101	110.980	-28.823	73.395	1.00	99.81	N
ATOM	24221	CG	LYS	N	101	112.246	-28.533	74.190	1.00	100.05	N
ATOM	24222	CD	LYS	N	101	113.255	-29.673	74.084	1.00	99.73	N
ATOM	24223	CE	LYS	N	101	114.452	-29.443	75.004	1.00	102.72	N
ATOM	24224	NZ	LYS	N	101	115.438	-30.563	74.965	1.00	101.33	N
ATOM	24225	C	LYS	N	101	110.566	-26.422	72.835	1.00	100.13	N
ATOM	24226	O	LYS	N	101	110.626	-26.266	71.613	1.00	101.16	N
ATOM	24227	N	PRO	N	102	111.019	-25.490	73.691	1.00	98.43	N
ATOM	24228	CD	PRO	N	102	110.937	-25.465	75.166	1.00	97.14	N
ATOM	24229	CA	PRO	N	102	111.623	-24.254	73.182	1.00	93.91	N
ATOM	24230	CB	PRO	N	102	111.433	-23.291	74.342	1.00	94.45	N
ATOM	24231	CG	PRO	N	102	111.714	-24.191	75.527	1.00	95.17	N
ATOM	24232	C	PRO	N	102	113.098	-24.488	72.894	1.00	89.20	N
ATOM	24233	O	PRO	N	102	113.741	-25.288	73.577	1.00	86.07	N
ATOM	24234	N	TRP	N	103	113.643	-23.821	71.883	1.00	87.51	N
ATOM	24235	CA	TRP	N	103	115.066	-23.997	71.628	1.00	85.28	N
ATOM	24236	CB	TRP	N	103	115.404	-23.846	70.130	1.00	82.81	N
ATOM	24237	CG	TRP	N	103	115.300	-22.483	69.584	1.00	86.34	N
ATOM	24238	CD2	TRP	N	103	116.087	-21.924	68.527	1.00	87.14	N
ATOM	24239	CE2	TRP	N	103	115.624	-20.603	68.316	1.00	89.54	N
ATOM	24240	CE3	TRP	N	103	117.136	-22.407	67.737	1.00	86.10	N
ATOM	24241	CD1	TRP	N	103	114.417	-21.514	69.961	1.00	89.85	N
ATOM	24242	NE1	TRP	N	103	114.607	-20.381	69.206	1.00	92.91	N
ATOM	24243	CZ2	TRP	N	103	116.177	-19.753	67.343	1.00	86.58	N
ATOM	24244	CZ3	TRP	N	103	117.687	-21.560	66.767	1.00	87.12	N
ATOM	24245	CH2	TRP	N	103	117.202	-20.247	66.582	1.00	84.51	N
ATOM	24246	C	TRP	N	103	115.769	-22.960	72.499	1.00	81.54	N
ATOM	24247	O	TRP	N	103	115.338	-21.811	72.593	1.00	76.07	N
ATOM	24248	N	PRO	N	104	116.837	-23.379	73.191	1.00	82.33	N
ATOM	24249	CD	PRO	N	104	117.453	-24.705	73.005	1.00	83.32	N
ATOM	24250	CA	PRO	N	104	117.651	-22.552	74.089	1.00	84.22	N
ATOM	24251	CB	PRO	N	104	118.633	-23.560	74.672	1.00	84.23	N
ATOM	24252	CG	PRO	N	104	118.865	-24.480	73.504	1.00	85.52	N
ATOM	24253	C	PRO	N	104	118.368	-21.390	73.396	1.00	83.30	N

ATOM	24254	O	PRO	N	104	119.508	-21.524	72.964	1.00	83.17	N
ATOM	24255	N	VAL	N	105	117.701	-20.250	73.295	1.00	81.40	N
ATOM	24256	CA	VAL	N	105	118.310	-19.105	72.654	1.00	82.86	N
ATOM	24257	CB	VAL	N	105	117.710	-18.856	71.260	1.00	82.51	N
ATOM	24258	CG1	VAL	N	105	118.219	-17.531	70.703	1.00	84.29	N
ATOM	24259	CG2	VAL	N	105	118.098	-19.989	70.334	1.00	81.72	N
ATOM	24260	C	VAL	N	105	118.138	-17.865	73.502	1.00	84.20	N
ATOM	24261	O	VAL	N	105	117.089	-17.214	73.468	1.00	86.86	N
ATOM	24262	N	ALA	N	106	119.176	-17.544	74.267	1.00	80.84	N
ATOM	24263	CA	ALA	N	106	119.145	-16.375	75.122	1.00	75.99	N
ATOM	24264	CB	ALA	N	106	119.301	-16.790	76.576	1.00	75.54	N
ATOM	24265	C	ALA	N	106	120.239	-15.383	74.721	1.00	73.72	N
ATOM	24266	O	ALA	N	106	121.417	-15.739	74.596	1.00	67.78	N
ATOM	24267	N	LEU	N	107	119.815	-14.138	74.508	1.00	72.35	N
ATOM	24268	CA	LEU	N	107	120.695	-13.043	74.129	1.00	69.84	N
ATOM	24269	CB	LEU	N	107	119.964	-12.082	73.206	1.00	65.62	N
ATOM	24270	CG	LEU	N	107	120.419	-12.068	71.757	1.00	64.12	N
ATOM	24271	CD1	LEU	N	107	120.380	-13.474	71.204	1.00	63.62	N
ATOM	24272	CD2	LEU	N	107	119.519	-11.130	70.960	1.00	63.60	N
ATOM	24273	C	LEU	N	107	121.151	-12.276	75.354	1.00	70.35	N
ATOM	24274	O	LEU	N	107	120.333	-11.814	76.145	1.00	68.04	N
ATOM	24275	N	TYR	N	108	122.462	-12.141	75.504	1.00	74.83	N
ATOM	24276	CA	TYR	N	108	123.028	-11.413	76.632	1.00	79.86	N
ATOM	24277	CB	TYR	N	108	123.887	-12.348	77.487	1.00	81.57	N
ATOM	24278	CG	TYR	N	108	123.076	-13.410	78.195	1.00	89.57	N
ATOM	24279	CD1	TYR	N	108	122.453	-14.432	77.480	1.00	93.15	N
ATOM	24280	CE1	TYR	N	108	121.683	-15.400	78.128	1.00	95.42	N
ATOM	24281	CD2	TYR	N	108	122.909	-13.382	79.582	1.00	92.93	N
ATOM	24282	CE2	TYR	N	108	122.140	-14.349	80.241	1.00	93.56	N
ATOM	24283	CZ	TYR	N	108	121.531	-15.355	79.506	1.00	95.05	N
ATOM	24284	OH	TYR	N	108	120.777	-16.320	80.137	1.00	96.61	N
ATOM	24285	C	TYR	N	108	123.846	-10.215	76.135	1.00	81.17	N
ATOM	24286	O	TYR	N	108	124.987	-10.357	75.691	1.00	81.71	N
ATOM	24287	N	LEU	N	109	123.243	-9.033	76.221	1.00	81.11	N
ATOM	24288	CA	LEU	N	109	123.874	-7.802	75.765	1.00	82.16	N
ATOM	24289	CB	LEU	N	109	122.955	-7.113	74.763	1.00	76.44	N
ATOM	24290	CG	LEU	N	109	122.316	-8.087	73.781	1.00	72.55	N
ATOM	24291	CD1	LEU	N	109	121.348	-7.337	72.886	1.00	73.65	N
ATOM	24292	CD2	LEU	N	109	123.397	-8.790	72.974	1.00	69.91	N
ATOM	24293	C	LEU	N	109	124.198	-6.836	76.903	1.00	83.90	N
ATOM	24294	O	LEU	N	109	123.377	-6.601	77.785	1.00	83.58	N
ATOM	24295	N	THR	N	110	125.402	-6.279	76.876	1.00	87.22	N
ATOM	24296	CA	THR	N	110	125.823	-5.329	77.896	1.00	90.30	N
ATOM	24297	CB	THR	N	110	127.160	-5.735	78.521	1.00	88.41	N
ATOM	24298	OG1	THR	N	110	127.071	-7.085	78.989	1.00	88.53	N
ATOM	24299	CG2	THR	N	110	127.498	-4.821	79.690	1.00	88.54	N
ATOM	24300	C	THR	N	110	125.988	-3.968	77.240	1.00	93.68	N
ATOM	24301	O	THR	N	110	126.436	-3.879	76.094	1.00	95.58	N
ATOM	24302	N	PRO	N	111	125.608	-2.887	77.946	1.00	94.66	N
ATOM	24303	CD	PRO	N	111	124.769	-2.833	79.155	1.00	93.94	N
ATOM	24304	CA	PRO	N	111	125.749	-1.551	77.355	1.00	94.00	N
ATOM	24305	CB	PRO	N	111	124.779	-0.696	78.177	1.00	94.32	N
ATOM	24306	CG	PRO	N	111	123.833	-1.710	78.812	1.00	94.16	N
ATOM	24307	C	PRO	N	111	127.191	-1.046	77.457	1.00	93.58	N
ATOM	24308	O	PRO	N	111	127.865	-1.238	78.477	1.00	92.75	N
ATOM	24309	N	VAL	N	112	127.666	-0.415	76.387	1.00	92.70	N
ATOM	24310	CA	VAL	N	112	129.020	0.127	76.358	1.00	89.90	N
ATOM	24311	CB	VAL	N	112	129.574	0.184	74.924	1.00	84.22	N

ATOM	24312	CG1	VAL	N	112	129.811	-1.213	74.406	1.00	80.37	N
ATOM	24313	CG2	VAL	N	112	128.594	0.919	74.022	1.00	83.88	N
ATOM	24314	C	VAL	N	112	128.997	1.541	76.920	1.00	92.04	N
ATOM	24315	O	VAL	N	112	128.017	2.271	76.746	1.00	93.78	N
ATOM	24316	N	SER	N	113	130.071	1.922	77.603	1.00	92.76	N
ATOM	24317	CA	SER	N	113	130.181	3.260	78.181	1.00	92.90	N
ATOM	24318	CB	SER	N	113	131.648	3.551	78.510	1.00	91.01	N
ATOM	24319	OG	SER	N	113	131.816	4.852	79.032	1.00	92.35	N
ATOM	24320	C	SER	N	113	129.637	4.317	77.211	1.00	92.21	N
ATOM	24321	O	SER	N	113	129.058	5.314	77.628	1.00	90.24	N
ATOM	24322	N	SER	N	114	129.817	4.065	75.916	1.00	93.72	N
ATOM	24323	CA	SER	N	114	129.378	4.953	74.839	1.00	95.42	N
ATOM	24324	CB	SER	N	114	129.758	4.347	73.483	1.00	93.30	N
ATOM	24325	OG	SER	N	114	129.296	5.142	72.408	1.00	87.37	N
ATOM	24326	C	SER	N	114	127.889	5.284	74.829	1.00	99.68	N
ATOM	24327	O	SER	N	114	127.500	6.385	74.440	1.00	100.57	N
ATOM	24328	N	ALA	N	115	127.055	4.331	75.232	1.00	104.48	N
ATOM	24329	CA	ALA	N	115	125.611	4.553	75.258	1.00	109.15	N
ATOM	24330	CB	ALA	N	115	124.904	3.313	75.797	1.00	108.30	N
ATOM	24331	C	ALA	N	115	125.285	5.776	76.125	1.00	112.58	N
ATOM	24332	O	ALA	N	115	126.184	6.378	76.720	1.00	113.42	N
ATOM	24333	N	GLY	N	116	124.006	6.146	76.196	1.00	114.86	N
ATOM	24334	CA	GLY	N	116	123.619	7.300	76.993	1.00	116.62	N
ATOM	24335	C	GLY	N	116	122.185	7.307	77.498	1.00	118.30	N
ATOM	24336	O	GLY	N	116	121.946	7.386	78.704	1.00	118.33	N
ATOM	24337	N	GLY	N	117	121.229	7.241	76.577	1.00	119.65	N
ATOM	24338	CA	GLY	N	117	119.828	7.240	76.959	1.00	119.86	N
ATOM	24339	C	GLY	N	117	119.045	6.174	76.217	1.00	119.86	N
ATOM	24340	O	GLY	N	117	119.085	5.001	76.586	1.00	119.15	N
ATOM	24341	N	VAL	N	118	118.336	6.580	75.167	1.00	119.99	N
ATOM	24342	CA	VAL	N	118	117.543	5.652	74.372	1.00	120.05	N
ATOM	24343	CB	VAL	N	118	116.575	6.398	73.422	1.00	121.12	N
ATOM	24344	CG1	VAL	N	118	115.798	5.399	72.575	1.00	122.47	N
ATOM	24345	CG2	VAL	N	118	115.617	7.259	74.224	1.00	122.38	N
ATOM	24346	C	VAL	N	118	118.444	4.761	73.528	1.00	120.24	N
ATOM	24347	O	VAL	N	118	118.822	5.124	72.413	1.00	121.61	N
ATOM	24348	N	ALA	N	119	118.790	3.596	74.065	1.00	119.75	N
ATOM	24349	CA	ALA	N	119	119.636	2.645	73.352	1.00	118.45	N
ATOM	24350	CB	ALA	N	119	120.210	1.618	74.327	1.00	116.68	N
ATOM	24351	C	ALA	N	119	118.809	1.945	72.273	1.00	118.13	N
ATOM	24352	O	ALA	N	119	119.230	1.847	71.120	1.00	118.34	N
ATOM	24353	N	ILE	N	120	117.626	1.472	72.656	1.00	117.57	N
ATOM	24354	CA	ILE	N	120	116.728	0.778	71.736	1.00	115.26	N
ATOM	24355	CB	ILE	N	120	116.499	-0.689	72.178	1.00	113.54	N
ATOM	24356	CG2	ILE	N	120	115.493	-1.361	71.260	1.00	114.04	N
ATOM	24357	CG1	ILE	N	120	117.820	-1.457	72.160	1.00	109.79	N
ATOM	24358	CD1	ILE	N	120	117.685	-2.904	72.567	1.00	108.30	N
ATOM	24359	C	ILE	N	120	115.376	1.478	71.675	1.00	113.44	N
ATOM	24360	O	ILE	N	120	114.866	1.945	72.692	1.00	112.72	N
ATOM	24361	N	LYS	N	121	114.801	1.548	70.479	1.00	112.33	N
ATOM	24362	CA	LYS	N	121	113.500	2.180	70.293	1.00	112.31	N
ATOM	24363	CB	LYS	N	121	113.283	2.512	68.812	1.00	111.20	N
ATOM	24364	CG	LYS	N	121	113.706	3.933	68.429	1.00	110.98	N
ATOM	24365	CD	LYS	N	121	115.133	4.259	68.877	1.00	111.42	N
ATOM	24366	CE	LYS	N	121	115.435	5.763	68.818	1.00	109.16	N
ATOM	24367	NZ	LYS	N	121	115.362	6.339	67.445	1.00	105.46	N
ATOM	24368	C	LYS	N	121	112.381	1.281	70.813	1.00	112.45	N
ATOM	24369	O	LYS	N	121	112.645	0.246	71.423	1.00	112.37	N

ATOM	24370	N	ALA N 122	111.133	1.673	70.577	1.00112.29	N
ATOM	24371	CA	ALA N 122	109.997	0.894	71.052	1.00112.47	N
ATOM	24372	CB	ALA N 122	109.013	1.807	71.772	1.00112.33	N
ATOM	24373	C	ALA N 122	109.287	0.141	69.935	1.00113.16	N
ATOM	24374	O	ALA N 122	108.137	-0.272	70.090	1.00112.94	N
ATOM	24375	N	GLY N 123	109.971	-0.041	68.812	1.00113.53	N
ATOM	24376	CA	GLY N 123	109.370	-0.750	67.696	1.00114.43	N
ATOM	24377	C	GLY N 123	110.331	-0.957	66.543	1.00115.20	N
ATOM	24378	O	GLY N 123	109.957	-0.844	65.369	1.00115.81	N
ATOM	24379	N	SER N 124	111.580	-1.262	66.883	1.00114.53	N
ATOM	24380	CA	SER N 124	112.623	-1.491	65.890	1.00110.57	N
ATOM	24381	CB	SER N 124	113.826	-0.580	66.169	1.00110.52	N
ATOM	24382	OG	SER N 124	114.316	-0.755	67.490	1.00107.80	N
ATOM	24383	C	SER N 124	113.067	-2.946	65.905	1.00106.44	N
ATOM	24384	O	SER N 124	112.562	-3.753	66.686	1.00104.52	N
ATOM	24385	N	LEU N 125	114.010	-3.270	65.026	1.00103.73	N
ATOM	24386	CA	LEU N 125	114.550	-4.617	64.932	1.00100.12	N
ATOM	24387	CB	LEU N 125	114.938	-4.931	63.486	1.00 99.26	N
ATOM	24388	CG	LEU N 125	115.532	-6.313	63.211	1.00100.74	N
ATOM	24389	CD1	LEU N 125	114.554	-7.408	63.620	1.00101.49	N
ATOM	24390	CD2	LEU N 125	115.849	-6.414	61.736	1.00 99.64	N
ATOM	24391	C	LEU N 125	115.777	-4.727	65.828	1.00 97.14	N
ATOM	24392	O	LEU N 125	116.651	-3.862	65.805	1.00 97.90	N
ATOM	24393	N	ILE N 126	115.821	-5.779	66.635	1.00 93.73	N
ATOM	24394	CA	ILE N 126	116.948	-6.007	67.528	1.00 91.29	N
ATOM	24395	CB	ILE N 126	116.531	-6.766	68.801	1.00 89.28	N
ATOM	24396	CG2	ILE N 126	117.750	-7.057	69.645	1.00 89.38	N
ATOM	24397	CG1	ILE N 126	115.532	-5.961	69.617	1.00 88.02	N
ATOM	24398	CD1	ILE N 126	115.125	-6.677	70.897	1.00 89.18	N
ATOM	24399	C	ILE N 126	117.967	-6.889	66.814	1.00 90.09	N
ATOM	24400	O	ILE N 126	119.108	-6.491	66.570	1.00 90.06	N
ATOM	24401	N	ALA N 127	117.526	-8.094	66.478	1.00 87.41	N
ATOM	24402	CA	ALA N 127	118.376	-9.070	65.831	1.00 85.12	N
ATOM	24403	CB	ALA N 127	118.951	-10.008	66.885	1.00 85.55	N
ATOM	24404	C	ALA N 127	117.632	-9.872	64.778	1.00 83.93	N
ATOM	24405	O	ALA N 127	116.472	-9.602	64.470	1.00 86.10	N
ATOM	24406	N	VAL N 128	118.325	-10.863	64.231	1.00 81.20	N
ATOM	24407	CA	VAL N 128	117.772	-11.746	63.221	1.00 77.20	N
ATOM	24408	CB	VAL N 128	118.067	-11.217	61.808	1.00 74.09	N
ATOM	24409	CG1	VAL N 128	117.652	-12.237	60.772	1.00 72.39	N
ATOM	24410	CG2	VAL N 128	117.317	-9.921	61.581	1.00 69.25	N
ATOM	24411	C	VAL N 128	118.407	-13.116	63.408	1.00 76.68	N
ATOM	24412	O	VAL N 128	119.359	-13.463	62.712	1.00 80.26	N
ATOM	24413	N	LEU N 129	117.877	-13.879	64.365	1.00 75.08	N
ATOM	24414	CA	LEU N 129	118.368	-15.224	64.691	1.00 74.17	N
ATOM	24415	CB	LEU N 129	117.904	-15.626	66.092	1.00 71.07	N
ATOM	24416	CG	LEU N 129	118.144	-14.622	67.212	1.00 71.08	N
ATOM	24417	CD1	LEU N 129	117.584	-15.174	68.510	1.00 61.13	N
ATOM	24418	CD2	LEU N 129	119.641	-14.335	67.324	1.00 71.12	N
ATOM	24419	C	LEU N 129	117.864	-16.273	63.706	1.00 74.00	N
ATOM	24420	O	LEU N 129	116.656	-16.412	63.517	1.00 76.20	N
ATOM	24421	N	ILE N 130	118.775	-17.025	63.094	1.00 71.77	N
ATOM	24422	CA	ILE N 130	118.355	-18.046	62.142	1.00 72.03	N
ATOM	24423	CB	ILE N 130	119.186	-18.011	60.844	1.00 71.17	N
ATOM	24424	CG2	ILE N 130	118.794	-19.188	59.966	1.00 71.44	N
ATOM	24425	CG1	ILE N 130	118.951	-16.699	60.087	1.00 70.11	N
ATOM	24426	CD1	ILE N 130	119.643	-16.645	58.727	1.00 62.44	N
ATOM	24427	C	ILE N 130	118.432	-19.457	62.700	1.00 74.20	N

ATOM	24428	O	ILE	N	130	119.500	-19.927	63.107	1.00	73.82	N
ATOM	24429	N	LEU	N	131	117.288	-20.134	62.703	1.00	75.44	N
ATOM	24430	CA	LEU	N	131	117.210	-21.503	63.191	1.00	76.53	N
ATOM	24431	CB	LEU	N	131	115.837	-21.768	63.814	1.00	76.50	N
ATOM	24432	CG	LEU	N	131	115.626	-23.127	64.498	1.00	76.94	N
ATOM	24433	CD1	LEU	N	131	114.378	-23.049	65.359	1.00	72.73	N
ATOM	24434	CD2	LEU	N	131	115.513	-24.254	63.468	1.00	76.22	N
ATOM	24435	C	LEU	N	131	117.436	-22.453	62.027	1.00	77.89	N
ATOM	24436	O	LEU	N	131	116.755	-22.369	61.009	1.00	77.81	N
ATOM	24437	N	ARG	N	132	118.397	-23.356	62.183	1.00	80.96	N
ATOM	24438	CA	ARG	N	132	118.720	-24.333	61.149	1.00	83.18	N
ATOM	24439	CB	ARG	N	132	120.230	-24.425	60.978	1.00	86.52	N
ATOM	24440	CG	ARG	N	132	120.696	-25.544	60.070	1.00	87.55	N
ATOM	24441	CD	ARG	N	132	121.061	-25.036	58.694	1.00	89.36	N
ATOM	24442	NE	ARG	N	132	122.133	-25.838	58.111	1.00	91.88	N
ATOM	24443	CZ	ARG	N	132	122.623	-25.669	56.887	1.00	95.34	N
ATOM	24444	NH1	ARG	N	132	122.138	-24.720	56.090	1.00	95.48	N
ATOM	24445	NH2	ARG	N	132	123.607	-26.451	56.464	1.00	96.47	N
ATOM	24446	C	ARG	N	132	118.185	-25.683	61.584	1.00	83.88	N
ATOM	24447	O	ARG	N	132	118.487	-26.143	62.688	1.00	83.16	N
ATOM	24448	N	GLN	N	133	117.408	-26.325	60.716	1.00	84.70	N
ATOM	24449	CA	GLN	N	133	116.824	-27.620	61.048	1.00	84.07	N
ATOM	24450	CB	GLN	N	133	115.303	-27.485	61.189	1.00	85.22	N
ATOM	24451	CG	GLN	N	133	114.616	-28.720	61.752	1.00	87.95	N
ATOM	24452	CD	GLN	N	133	113.756	-29.442	60.728	1.00	90.66	N
ATOM	24453	OE1	GLN	N	133	112.844	-28.856	60.139	1.00	92.70	N
ATOM	24454	NE2	GLN	N	133	114.039	-30.723	60.516	1.00	90.36	N
ATOM	24455	C	GLN	N	133	117.146	-28.731	60.058	1.00	82.81	N
ATOM	24456	O	GLN	N	133	117.018	-28.560	58.841	1.00	81.54	N
ATOM	24457	N	THR	N	134	117.569	-29.867	60.608	1.00	81.62	N
ATOM	24458	CA	THR	N	134	117.900	-31.061	59.836	1.00	81.04	N
ATOM	24459	CB	THR	N	134	119.410	-31.212	59.623	1.00	78.57	N
ATOM	24460	OG1	THR	N	134	120.060	-31.364	60.891	1.00	78.90	N
ATOM	24461	CG2	THR	N	134	119.963	-30.008	58.889	1.00	73.55	N
ATOM	24462	C	THR	N	134	117.420	-32.253	60.650	1.00	83.21	N
ATOM	24463	O	THR	N	134	116.677	-32.075	61.615	1.00	84.10	N
ATOM	24464	N	ASN	N	135	117.838	-33.457	60.265	1.00	84.67	N
ATOM	24465	CA	ASN	N	135	117.447	-34.674	60.976	1.00	87.01	N
ATOM	24466	CB	ASN	N	135	115.952	-34.946	60.813	1.00	87.72	N
ATOM	24467	CG	ASN	N	135	115.546	-35.114	59.364	1.00	89.22	N
ATOM	24468	OD1	ASN	N	135	116.160	-35.880	58.621	1.00	90.35	N
ATOM	24469	ND2	ASN	N	135	114.500	-34.405	58.955	1.00	88.45	N
ATOM	24470	C	ASN	N	135	118.227	-35.868	60.460	1.00	89.69	N
ATOM	24471	O	ASN	N	135	118.898	-35.780	59.430	1.00	89.84	N
ATOM	24472	N	ASN	N	136	118.123	-36.989	61.170	1.00	92.14	N
ATOM	24473	CA	ASN	N	136	118.839	-38.205	60.790	1.00	95.11	N
ATOM	24474	CB	ASN	N	136	119.292	-38.970	62.049	1.00	90.81	N
ATOM	24475	CG	ASN	N	136	118.124	-39.475	62.898	1.00	85.68	N
ATOM	24476	OD1	ASN	N	136	118.323	-40.200	63.880	1.00	77.50	N
ATOM	24477	ND2	ASN	N	136	116.906	-39.093	62.524	1.00	82.76	N
ATOM	24478	C	ASN	N	136	118.017	-39.132	59.901	1.00	99.68	N
ATOM	24479	O	ASN	N	136	118.185	-40.349	59.948	1.00	101.46	N
ATOM	24480	N	TYR	N	137	117.148	-38.560	59.073	1.00	104.47	N
ATOM	24481	CA	TYR	N	137	116.294	-39.370	58.210	1.00	107.68	N
ATOM	24482	CB	TYR	N	137	114.825	-39.129	58.583	1.00	111.95	N
ATOM	24483	CG	TYR	N	137	113.850	-40.102	57.964	1.00	114.80	N
ATOM	24484	CD1	TYR	N	137	114.008	-41.478	58.131	1.00	117.02	N
ATOM	24485	CE1	TYR	N	137	113.102	-42.382	57.581	1.00	117.98	N

ATOM	24486	CD2	TYR	N	137	112.757	-39.648	57.227	1.00114.81	N
ATOM	24487	CE2	TYR	N	137	111.844	-40.542	56.672	1.00117.91	N
ATOM	24488	CZ	TYR	N	137	112.022	-41.907	56.852	1.00118.72	N
ATOM	24489	OH	TYR	N	137	111.129	-42.792	56.291	1.00120.28	N
ATOM	24490	C	TYR	N	137	116.501	-39.132	56.717	1.00107.39	N
ATOM	24491	O	TYR	N	137	116.675	-40.081	55.954	1.00106.22	N
ATOM	24492	N	ASN	N	138	116.482	-37.871	56.298	1.00108.17	N
ATOM	24493	CA	ASN	N	138	116.664	-37.554	54.886	1.00110.06	N
ATOM	24494	CB	ASN	N	138	115.308	-37.461	54.192	1.00112.07	N
ATOM	24495	CG	ASN	N	138	114.372	-36.501	54.885	1.00114.16	N
ATOM	24496	OD1	ASN	N	138	113.824	-36.807	55.944	1.00115.43	N
ATOM	24497	ND2	ASN	N	138	114.195	-35.323	54.300	1.00114.72	N
ATOM	24498	C	ASN	N	138	117.438	-36.263	54.648	1.00110.53	N
ATOM	24499	O	ASN	N	138	118.059	-35.719	55.560	1.00111.75	N
ATOM	24500	N	SER	N	139	117.380	-35.779	53.409	1.00110.60	N
ATOM	24501	CA	SER	N	139	118.075	-34.561	52.993	1.00109.93	N
ATOM	24502	CB	SER	N	139	118.173	-34.528	51.463	1.00109.91	N
ATOM	24503	OG	SER	N	139	116.895	-34.683	50.863	1.00108.71	N
ATOM	24504	C	SER	N	139	117.441	-33.260	53.488	1.00109.01	N
ATOM	24505	O	SER	N	139	117.707	-32.186	52.934	1.00108.87	N
ATOM	24506	N	ASP	N	140	116.615	-33.352	54.528	1.00106.91	N
ATOM	24507	CA	ASP	N	140	115.947	-32.174	55.079	1.00105.38	N
ATOM	24508	CB	ASP	N	140	114.803	-32.602	56.004	1.00106.95	N
ATOM	24509	CG	ASP	N	140	113.447	-32.533	55.322	1.00107.96	N
ATOM	24510	OD1	ASP	N	140	112.432	-32.889	55.958	1.00107.49	N
ATOM	24511	OD2	ASP	N	140	113.394	-32.113	54.147	1.00109.17	N
ATOM	24512	C	ASP	N	140	116.868	-31.190	55.804	1.00102.57	N
ATOM	24513	O	ASP	N	140	117.520	-31.526	56.792	1.00101.48	N
ATOM	24514	N	ASP	N	141	116.894	-29.962	55.298	1.00100.68	N
ATOM	24515	CA	ASP	N	141	117.721	-28.894	55.842	1.00 99.35	N
ATOM	24516	CB	ASP	N	141	119.065	-28.880	55.108	1.00 99.08	N
ATOM	24517	CG	ASP	N	141	120.058	-27.912	55.711	1.00 97.29	N
ATOM	24518	OD1	ASP	N	141	119.752	-26.703	55.799	1.00 96.73	N
ATOM	24519	OD2	ASP	N	141	121.155	-28.367	56.088	1.00 96.66	N
ATOM	24520	C	ASP	N	141	116.985	-27.572	55.618	1.00 98.79	N
ATOM	24521	O	ASP	N	141	116.994	-27.025	54.511	1.00 98.93	N
ATOM	24522	N	PHE	N	142	116.351	-27.056	56.666	1.00 96.65	N
ATOM	24523	CA	PHE	N	142	115.604	-25.812	56.539	1.00 95.84	N
ATOM	24524	CB	PHE	N	142	114.128	-26.083	56.819	1.00 94.39	N
ATOM	24525	CG	PHE	N	142	113.549	-27.179	55.973	1.00 93.02	N
ATOM	24526	CD1	PHE	N	142	113.200	-28.400	56.538	1.00 91.11	N
ATOM	24527	CD2	PHE	N	142	113.359	-26.992	54.605	1.00 91.54	N
ATOM	24528	CE1	PHE	N	142	112.665	-29.421	55.752	1.00 91.81	N
ATOM	24529	CE2	PHE	N	142	112.827	-28.003	53.812	1.00 90.87	N
ATOM	24530	CZ	PHE	N	142	112.478	-29.220	54.385	1.00 91.72	N
ATOM	24531	C	PHE	N	142	116.110	-24.691	57.441	1.00 96.20	N
ATOM	24532	O	PHE	N	142	116.875	-24.932	58.375	1.00 96.43	N
ATOM	24533	N	GLN	N	143	115.674	-23.465	57.156	1.00 96.99	N
ATOM	24534	CA	GLN	N	143	116.085	-22.302	57.937	1.00 96.11	N
ATOM	24535	CB	GLN	N	143	116.905	-21.337	57.076	1.00 96.90	N
ATOM	24536	CG	GLN	N	143	118.095	-21.972	56.373	1.00104.78	N
ATOM	24537	CD	GLN	N	143	119.118	-20.946	55.898	1.00107.38	N
ATOM	24538	OE1	GLN	N	143	118.760	-19.904	55.339	1.00107.92	N
ATOM	24539	NE2	GLN	N	143	120.401	-21.245	56.111	1.00106.47	N
ATOM	24540	C	GLN	N	143	114.922	-21.531	58.560	1.00 95.41	N
ATOM	24541	O	GLN	N	143	114.491	-20.509	58.022	1.00 95.29	N
ATOM	24542	N	PHE	N	144	114.421	-22.022	59.693	1.00 94.18	N
ATOM	24543	CA	PHE	N	144	113.333	-21.359	60.411	1.00 92.83	N

ATOM	24544	CB	PHE	N	144	112.933	-22.170	61.648	1.00	90.96	N
ATOM	24545	CG	PHE	N	144	112.222	-23.462	61.336	1.00	92.42	N
ATOM	24546	CD1	PHE	N	144	112.835	-24.447	60.565	1.00	89.88	N
ATOM	24547	CD2	PHE	N	144	110.931	-23.695	61.820	1.00	91.04	N
ATOM	24548	CE1	PHE	N	144	112.176	-25.644	60.280	1.00	86.76	N
ATOM	24549	CE2	PHE	N	144	110.266	-24.885	61.541	1.00	86.62	N
ATOM	24550	CZ	PHE	N	144	110.890	-25.860	60.768	1.00	87.20	N
ATOM	24551	C	PHE	N	144	113.833	-19.985	60.858	1.00	92.76	N
ATOM	24552	O	PHE	N	144	114.519	-19.873	61.873	1.00	93.62	N
ATOM	24553	N	VAL	N	145	113.486	-18.944	60.106	1.00	91.96	N
ATOM	24554	CA	VAL	N	145	113.924	-17.585	60.417	1.00	91.05	N
ATOM	24555	CB	VAL	N	145	113.915	-16.721	59.159	1.00	87.76	N
ATOM	24556	CG1	VAL	N	145	114.709	-15.455	59.400	1.00	85.49	N
ATOM	24557	CG2	VAL	N	145	114.480	-17.509	57.997	1.00	89.37	N
ATOM	24558	C	VAL	N	145	113.102	-16.865	61.485	1.00	92.80	N
ATOM	24559	O	VAL	N	145	111.940	-17.193	61.723	1.00	93.63	N
ATOM	24560	N	TRP	N	146	113.720	-15.878	62.127	1.00	94.67	N
ATOM	24561	CA	TRP	N	146	113.053	-15.098	63.164	1.00	96.31	N
ATOM	24562	CB	TRP	N	146	113.291	-15.708	64.551	1.00	95.55	N
ATOM	24563	CG	TRP	N	146	113.038	-17.188	64.640	1.00	95.87	N
ATOM	24564	CD2	TRP	N	146	111.817	-17.831	65.031	1.00	94.99	N
ATOM	24565	CE2	TRP	N	146	112.040	-19.223	64.966	1.00	94.94	N
ATOM	24566	CE3	TRP	N	146	110.556	-17.366	65.430	1.00	92.97	N
ATOM	24567	CD1	TRP	N	146	113.924	-18.189	64.362	1.00	95.81	N
ATOM	24568	NE1	TRP	N	146	113.333	-19.412	64.556	1.00	95.20	N
ATOM	24569	CZ2	TRP	N	146	111.046	-20.157	65.286	1.00	95.59	N
ATOM	24570	CZ3	TRP	N	146	109.568	-18.298	65.749	1.00	91.80	N
ATOM	24571	CH2	TRP	N	146	109.820	-19.676	65.674	1.00	92.33	N
ATOM	24572	C	TRP	N	146	113.562	-13.660	63.172	1.00	97.62	N
ATOM	24573	O	TRP	N	146	114.727	-13.401	62.868	1.00	98.75	N
ATOM	24574	N	ASN	N	147	112.678	-12.730	63.519	1.00	98.32	N
ATOM	24575	CA	ASN	N	147	113.029	-11.315	63.588	1.00	96.67	N
ATOM	24576	CB	ASN	N	147	112.366	-10.538	62.451	1.00	96.12	N
ATOM	24577	CG	ASN	N	147	112.831	-11.006	61.089	1.00	99.62	N
ATOM	24578	OD1	ASN	N	147	114.032	-11.101	60.836	1.00	100.68	N
ATOM	24579	ND2	ASN	N	147	111.884	-11.299	60.201	1.00	99.73	N
ATOM	24580	C	ASN	N	147	112.582	-10.764	64.929	1.00	93.92	N
ATOM	24581	O	ASN	N	147	111.391	-10.671	65.213	1.00	93.10	N
ATOM	24582	N	ILE	N	148	113.553	-10.408	65.756	1.00	92.54	N
ATOM	24583	CA	ILE	N	148	113.268	-9.882	67.075	1.00	92.91	N
ATOM	24584	CB	ILE	N	148	114.405	-10.231	68.045	1.00	92.62	N
ATOM	24585	CG2	ILE	N	148	114.052	-9.768	69.451	1.00	93.38	N
ATOM	24586	CG1	ILE	N	148	114.678	-11.740	68.006	1.00	93.48	N
ATOM	24587	CD1	ILE	N	148	113.517	-12.615	68.460	1.00	92.72	N
ATOM	24588	C	ILE	N	148	113.090	-8.368	67.057	1.00	95.35	N
ATOM	24589	O	ILE	N	148	113.930	-7.647	66.515	1.00	96.12	N
ATOM	24590	N	TYR	N	149	111.986	-7.902	67.645	1.00	96.44	N
ATOM	24591	CA	TYR	N	149	111.667	-6.473	67.742	1.00	95.30	N
ATOM	24592	CB	TYR	N	149	110.448	-6.115	66.884	1.00	87.95	N
ATOM	24593	CG	TYR	N	149	110.660	-6.182	65.389	1.00	81.96	N
ATOM	24594	CD1	TYR	N	149	110.768	-7.403	64.730	1.00	80.20	N
ATOM	24595	CE1	TYR	N	149	110.918	-7.465	63.342	1.00	81.47	N
ATOM	24596	CD2	TYR	N	149	110.714	-5.019	64.627	1.00	82.60	N
ATOM	24597	CE2	TYR	N	149	110.866	-5.068	63.239	1.00	81.93	N
ATOM	24598	CZ	TYR	N	149	110.965	-6.292	62.601	1.00	80.38	N
ATOM	24599	OH	TYR	N	149	111.092	-6.338	61.228	1.00	74.85	N
ATOM	24600	C	TYR	N	149	111.356	-6.119	69.197	1.00	98.65	N
ATOM	24601	O	TYR	N	149	110.884	-6.963	69.959	1.00	99.20	N

ATOM	24602	N	ALA	N	150	111.622	-4.875	69.582	1.00103.37	N
ATOM	24603	CA	ALA	N	150	111.347	-4.425	70.945	1.00108.02	N
ATOM	24604	CB	ALA	N	150	112.613	-3.835	71.579	1.00105.02	N
ATOM	24605	C	ALA	N	150	110.226	-3.380	70.915	1.00111.27	N
ATOM	24606	O	ALA	N	150	110.384	-2.301	70.337	1.00112.80	N
ATOM	24607	N	ASN	N	151	109.092	-3.708	71.528	1.00112.72	N
ATOM	24608	CA	ASN	N	151	107.953	-2.793	71.556	1.00113.57	N
ATOM	24609	CB	ASN	N	151	106.670	-3.543	71.930	1.00115.64	N
ATOM	24610	CG	ASN	N	151	106.276	-4.590	70.904	1.00117.25	N
ATOM	24611	OD1	ASN	N	151	106.084	-4.286	69.725	1.00116.80	N
ATOM	24612	ND2	ASN	N	151	106.144	-5.832	71.353	1.00116.19	N
ATOM	24613	C	ASN	N	151	108.153	-1.636	72.533	1.00113.00	N
ATOM	24614	O	ASN	N	151	107.306	-0.750	72.632	1.00112.21	N
ATOM	24615	N	ASN	N	152	109.273	-1.644	73.248	1.00112.60	N
ATOM	24616	CA	ASN	N	152	109.558	-0.598	74.222	1.00112.16	N
ATOM	24617	CB	ASN	N	152	109.406	-1.160	75.635	1.00109.73	N
ATOM	24618	CG	ASN	N	152	110.350	-2.310	75.906	1.00108.20	N
ATOM	24619	OD1	ASN	N	152	110.344	-3.314	75.193	1.00106.11	N
ATOM	24620	ND2	ASN	N	152	111.171	-2.170	76.939	1.00105.55	N
ATOM	24621	C	ASN	N	152	110.955	-0.010	74.062	1.00112.99	N
ATOM	24622	O	ASN	N	152	111.891	-0.712	73.699	1.00114.11	N
ATOM	24623	N	ASP	N	153	111.086	1.283	74.339	1.00114.21	N
ATOM	24624	CA	ASP	N	153	112.373	1.963	74.240	1.00115.27	N
ATOM	24625	CB	ASP	N	153	112.200	3.486	74.268	1.00115.89	N
ATOM	24626	CG	ASP	N	153	111.245	3.998	73.214	1.00117.47	N
ATOM	24627	OD1	ASP	N	153	111.466	3.726	72.015	1.00119.03	N
ATOM	24628	OD2	ASP	N	153	110.275	4.689	73.590	1.00118.35	N
ATOM	24629	C	ASP	N	153	113.244	1.581	75.428	1.00116.14	N
ATOM	24630	O	ASP	N	153	112.851	1.798	76.573	1.00115.76	N
ATOM	24631	N	VAL	N	154	114.417	1.010	75.176	1.00117.24	N
ATOM	24632	CA	VAL	N	154	115.297	0.677	76.288	1.00117.99	N
ATOM	24633	CB	VAL	N	154	116.293	-0.453	75.952	1.00117.42	N
ATOM	24634	CG1	VAL	N	154	117.120	-0.800	77.193	1.00113.34	N
ATOM	24635	CG2	VAL	N	154	115.544	-1.678	75.463	1.00118.30	N
ATOM	24636	C	VAL	N	154	116.072	1.955	76.564	1.00118.54	N
ATOM	24637	O	VAL	N	154	116.157	2.835	75.705	1.00117.37	N
ATOM	24638	N	VAL	N	155	116.623	2.067	77.765	1.00119.89	N
ATOM	24639	CA	VAL	N	155	117.374	3.253	78.132	1.00121.47	N
ATOM	24640	CB	VAL	N	155	116.497	4.243	78.934	1.00121.87	N
ATOM	24641	CG1	VAL	N	155	117.303	5.474	79.303	1.00123.69	N
ATOM	24642	CG2	VAL	N	155	115.283	4.645	78.116	1.00120.64	N
ATOM	24643	C	VAL	N	155	118.579	2.875	78.971	1.00122.90	N
ATOM	24644	O	VAL	N	155	118.563	1.871	79.679	1.00122.79	N
ATOM	24645	N	VAL	N	156	119.626	3.685	78.873	1.00125.76	N
ATOM	24646	CA	VAL	N	156	120.851	3.465	79.626	1.00129.89	N
ATOM	24647	CB	VAL	N	156	121.976	2.926	78.722	1.00130.85	N
ATOM	24648	CG1	VAL	N	156	123.178	2.551	79.569	1.00129.28	N
ATOM	24649	CG2	VAL	N	156	121.478	1.722	77.929	1.00131.39	N
ATOM	24650	C	VAL	N	156	121.269	4.815	80.199	1.00131.99	N
ATOM	24651	O	VAL	N	156	122.327	5.348	79.862	1.00132.54	N
ATOM	24652	N	PRO	N	157	120.438	5.372	81.094	1.00133.35	N
ATOM	24653	CD	PRO	N	157	119.393	4.592	81.787	1.00134.61	N
ATOM	24654	CA	PRO	N	157	120.631	6.661	81.763	1.00132.95	N
ATOM	24655	CB	PRO	N	157	120.056	6.405	83.150	1.00133.55	N
ATOM	24656	CG	PRO	N	157	118.860	5.582	82.822	1.00135.02	N
ATOM	24657	C	PRO	N	157	122.048	7.220	81.804	1.00131.67	N
ATOM	24658	O	PRO	N	157	123.018	6.501	82.055	1.00130.65	N
ATOM	24659	N	THR	N	158	122.138	8.521	81.543	1.00130.87	N

ATOM	24660	CA	THR	N	158	123.396	9.250	81.552	1.00129.54	N
ATOM	24661	CB	THR	N	158	123.231	10.612	80.849	1.00128.09	N
ATOM	24662	OG1	THR	N	158	124.421	11.388	81.016	1.00127.79	N
ATOM	24663	CG2	THR	N	158	122.042	11.367	81.425	1.00127.89	N
ATOM	24664	C	THR	N	158	123.799	9.465	83.008	1.00129.93	N
ATOM	24665	O	THR	N	158	122.938	9.636	83.872	1.00130.47	N
ATOM	24666	N	GLY	N	159	125.101	9.454	83.282	1.00130.64	N
ATOM	24667	CA	GLY	N	159	125.561	9.633	84.649	1.00132.63	N
ATOM	24668	C	GLY	N	159	126.810	10.474	84.845	1.00134.03	N
ATOM	24669	O	GLY	N	159	127.345	11.046	83.895	1.00133.54	N
ATOM	24670	N	GLY	N	160	127.267	10.539	86.095	1.00136.09	N
ATOM	24671	CA	GLY	N	160	128.448	11.308	86.456	1.00139.78	N
ATOM	24672	C	GLY	N	160	129.522	11.398	85.390	1.00142.84	N
ATOM	24673	O	GLY	N	160	129.992	10.378	84.888	1.00143.54	N
ATOM	24674	N	CYS	N	161	129.917	12.623	85.052	1.00145.31	N
ATOM	24675	CA	CYS	N	161	130.935	12.852	84.035	1.00147.58	N
ATOM	24676	C	CYS	N	161	132.339	12.634	84.570	1.00149.90	N
ATOM	24677	O	CYS	N	161	132.562	12.616	85.783	1.00149.38	N
ATOM	24678	CB	CYS	N	161	130.815	14.267	83.478	1.00147.27	N
ATOM	24679	SG	CYS	N	161	129.231	14.573	82.643	1.00148.73	N
ATOM	24680	N	ASP	N	162	133.280	12.481	83.644	1.00153.01	N
ATOM	24681	CA	ASP	N	162	134.679	12.237	83.966	1.00156.58	N
ATOM	24682	CB	ASP	N	162	135.429	11.817	82.700	1.00157.06	N
ATOM	24683	CG	ASP	N	162	136.881	11.482	82.967	1.00158.08	N
ATOM	24684	OD1	ASP	N	162	137.141	10.556	83.765	1.00158.08	N
ATOM	24685	OD2	ASP	N	162	137.760	12.146	82.376	1.00158.51	N
ATOM	24686	C	ASP	N	162	135.384	13.430	84.601	1.00159.22	N
ATOM	24687	O	ASP	N	162	135.713	14.401	83.920	1.00159.09	N
ATOM	24688	N	VAL	N	163	135.624	13.341	85.908	1.00162.14	N
ATOM	24689	CA	VAL	N	163	136.300	14.402	86.647	1.00163.97	N
ATOM	24690	CB	VAL	N	163	135.863	14.426	88.125	1.00162.62	N
ATOM	24691	CG1	VAL	N	163	136.489	15.616	88.830	1.00162.57	N
ATOM	24692	CG2	VAL	N	163	134.352	14.486	88.217	1.00162.76	N
ATOM	24693	C	VAL	N	163	137.811	14.194	86.598	1.00166.18	N
ATOM	24694	O	VAL	N	163	138.384	13.537	87.468	1.00165.88	N
ATOM	24695	N	SER	N	164	138.448	14.757	85.574	1.00168.67	N
ATOM	24696	CA	SER	N	164	139.892	14.631	85.407	1.00170.79	N
ATOM	24697	CB	SER	N	164	140.272	14.761	83.928	1.00170.36	N
ATOM	24698	OG	SER	N	164	139.630	13.776	83.139	1.00170.20	N
ATOM	24699	C	SER	N	164	140.635	15.688	86.214	1.00172.45	N
ATOM	24700	O	SER	N	164	140.369	16.882	86.087	1.00172.49	N
ATOM	24701	N	ALA	N	165	141.569	15.237	87.043	1.00174.56	N
ATOM	24702	CA	ALA	N	165	142.364	16.129	87.875	1.00176.75	N
ATOM	24703	CB	ALA	N	165	141.567	16.549	89.101	1.00176.69	N
ATOM	24704	C	ALA	N	165	143.630	15.397	88.295	1.00178.63	N
ATOM	24705	O	ALA	N	165	143.592	14.537	89.175	1.00178.59	N
ATOM	24706	N	ARG	N	166	144.745	15.742	87.655	1.00181.19	N
ATOM	24707	CA	ARG	N	166	146.035	15.118	87.940	1.00183.93	N
ATOM	24708	CB	ARG	N	166	147.176	16.091	87.626	1.00184.01	N
ATOM	24709	CG	ARG	N	166	147.309	16.410	86.149	1.00184.98	N
ATOM	24710	CD	ARG	N	166	148.573	17.196	85.849	1.00184.99	N
ATOM	24711	NE	ARG	N	166	148.758	17.375	84.411	1.00185.71	N
ATOM	24712	CZ	ARG	N	166	149.803	17.982	83.858	1.00185.47	N
ATOM	24713	NH1	ARG	N	166	150.768	18.476	84.622	1.00186.01	N
ATOM	24714	NH2	ARG	N	166	149.883	18.097	82.540	1.00185.02	N
ATOM	24715	C	ARG	N	166	146.171	14.624	89.373	1.00185.56	N
ATOM	24716	O	ARG	N	166	146.118	13.420	89.633	1.00185.61	N
ATOM	24717	N	ASP	N	167	146.342	15.560	90.300	1.00187.59	N

ATOM	24718	CA	ASP N 167	146.494	15.223	91.709	1.00189.78	N
ATOM	24719	CB	ASP N 167	147.628	14.212	91.881	1.00190.47	N
ATOM	24720	CG	ASP N 167	148.875	14.600	91.110	1.00190.76	N
ATOM	24721	OD1	ASP N 167	149.838	13.806	91.105	1.00191.61	N
ATOM	24722	OD2	ASP N 167	148.894	15.698	90.510	1.00189.88	N
ATOM	24723	C	ASP N 167	146.786	16.473	92.525	1.00191.09	N
ATOM	24724	O	ASP N 167	147.209	17.491	91.977	1.00190.89	N
ATOM	24725	N	VAL N 168	146.559	16.384	93.834	1.00193.06	N
ATOM	24726	CA	VAL N 168	146.787	17.500	94.747	1.00195.14	N
ATOM	24727	CB	VAL N 168	146.955	16.999	96.208	1.00195.06	N
ATOM	24728	CG1	VAL N 168	148.027	15.922	96.272	1.00195.62	N
ATOM	24729	CG2	VAL N 168	147.308	18.163	97.125	1.00194.58	N
ATOM	24730	C	VAL N 168	148.002	18.341	94.352	1.00196.60	N
ATOM	24731	O	VAL N 168	149.149	17.966	94.601	1.00197.03	N
ATOM	24732	N	THR N 169	147.732	19.482	93.724	1.00197.61	N
ATOM	24733	CA	THR N 169	148.784	20.387	93.285	1.00198.09	N
ATOM	24734	CB	THR N 169	148.249	21.420	92.265	1.00197.99	N
ATOM	24735	OG1	THR N 169	147.703	20.737	91.130	1.00198.03	N
ATOM	24736	CG2	THR N 169	149.367	22.343	91.798	1.00197.73	N
ATOM	24737	C	THR N 169	149.357	21.134	94.480	1.00198.49	N
ATOM	24738	O	THR N 169	148.656	21.397	95.459	1.00198.20	N
ATOM	24739	N	VAL N 170	150.640	21.464	94.395	1.00199.17	N
ATOM	24740	CA	VAL N 170	151.312	22.190	95.460	1.00199.64	N
ATOM	24741	CB	VAL N 170	152.701	21.584	95.755	1.00200.00	N
ATOM	24742	CG1	VAL N 170	153.328	22.277	96.955	1.00199.97	N
ATOM	24743	CG2	VAL N 170	152.570	20.089	96.007	1.00199.96	N
ATOM	24744	C	VAL N 170	151.478	23.637	95.009	1.00199.53	N
ATOM	24745	O	VAL N 170	151.552	23.915	93.811	1.00199.45	N
ATOM	24746	N	THR N 171	151.528	24.557	95.966	1.00199.06	N
ATOM	24747	CA	THR N 171	151.680	25.966	95.635	1.00198.59	N
ATOM	24748	CB	THR N 171	150.564	26.808	96.269	1.00197.96	N
ATOM	24749	OG1	THR N 171	149.290	26.248	95.932	1.00197.27	N
ATOM	24750	CG2	THR N 171	150.626	28.233	95.752	1.00197.16	N
ATOM	24751	C	THR N 171	153.025	26.512	96.096	1.00198.72	N
ATOM	24752	O	THR N 171	153.380	26.405	97.271	1.00198.23	N
ATOM	24753	N	LEU N 172	153.767	27.093	95.158	1.00199.21	N
ATOM	24754	CA	LEU N 172	155.073	27.668	95.453	1.00199.51	N
ATOM	24755	CB	LEU N 172	155.609	28.416	94.227	1.00199.07	N
ATOM	24756	CG	LEU N 172	155.715	27.631	92.915	1.00198.57	N
ATOM	24757	CD1	LEU N 172	156.151	28.568	91.802	1.00198.45	N
ATOM	24758	CD2	LEU N 172	156.702	26.484	93.066	1.00198.47	N
ATOM	24759	C	LEU N 172	154.925	28.637	96.621	1.00199.97	N
ATOM	24760	O	LEU N 172	154.066	29.520	96.594	1.00200.00	N
ATOM	24761	N	PRO N 173	155.758	28.483	97.665	1.00200.00	N
ATOM	24762	CD	PRO N 173	156.897	27.554	97.783	1.00199.86	N
ATOM	24763	CA	PRO N 173	155.686	29.370	98.831	1.00200.00	N
ATOM	24764	CB	PRO N 173	156.758	28.802	99.762	1.00199.69	N
ATOM	24765	CG	PRO N 173	157.769	28.245	98.804	1.00199.69	N
ATOM	24766	C	PRO N 173	155.940	30.829	98.452	1.00200.00	N
ATOM	24767	O	PRO N 173	155.761	31.215	97.296	1.00200.00	N
ATOM	24768	N	ASP N 174	156.354	31.636	99.426	1.00200.00	N
ATOM	24769	CA	ASP N 174	156.628	33.051	99.181	1.00200.00	N
ATOM	24770	CB	ASP N 174	157.672	33.212	98.065	1.00200.00	N
ATOM	24771	CG	ASP N 174	158.992	32.530	98.384	1.00200.00	N
ATOM	24772	OD1	ASP N 174	158.995	31.300	98.609	1.00200.00	N
ATOM	24773	OD2	ASP N 174	160.031	33.226	98.403	1.00200.00	N
ATOM	24774	C	ASP N 174	155.348	33.775	98.764	1.00199.73	N
ATOM	24775	O	ASP N 174	154.298	33.153	98.596	1.00200.00	N

ATOM	24776	N	TYR N 175	155.441	35.093	98.603	1.00198.99	N
ATOM	24777	CA	TYR N 175	154.297	35.893	98.177	1.00197.95	N
ATOM	24778	CB	TYR N 175	154.573	37.389	98.380	1.00198.39	N
ATOM	24779	CG	TYR N 175	154.477	37.859	99.817	1.00198.63	N
ATOM	24780	CD1	TYR N 175	155.281	37.303	100.811	1.00198.77	N
ATOM	24781	CE1	TYR N 175	155.203	37.744	102.132	1.00199.03	N
ATOM	24782	CD2	TYR N 175	153.586	38.871	100.180	1.00198.60	N
ATOM	24783	CE2	TYR N 175	153.500	39.319	101.497	1.00198.57	N
ATOM	24784	CZ	TYR N 175	154.311	38.752	102.466	1.00198.80	N
ATOM	24785	OH	TYR N 175	154.232	39.193	103.767	1.00198.44	N
ATOM	24786	C	TYR N 175	154.000	35.615	96.701	1.00196.70	N
ATOM	24787	O	TYR N 175	152.843	35.417	96.322	1.00196.15	N
ATOM	24788	N	PRO N 176	155.043	35.601	95.846	1.00195.60	N
ATOM	24789	CD	PRO N 176	156.472	35.846	96.115	1.00195.55	N
ATOM	24790	CA	PRO N 176	154.829	35.336	94.420	1.00194.35	N
ATOM	24791	CB	PRO N 176	156.185	35.671	93.804	1.00194.66	N
ATOM	24792	CG	PRO N 176	157.137	35.271	94.882	1.00194.96	N
ATOM	24793	C	PRO N 176	154.435	33.879	94.203	1.00193.01	N
ATOM	24794	O	PRO N 176	155.230	33.069	93.723	1.00192.63	N
ATOM	24795	N	GLY N 177	153.201	33.556	94.573	1.00191.56	N
ATOM	24796	CA	GLY N 177	152.712	32.201	94.422	1.00189.77	N
ATOM	24797	C	GLY N 177	151.456	32.134	93.579	1.00188.30	N
ATOM	24798	O	GLY N 177	150.527	32.923	93.752	1.00187.45	N
ATOM	24799	N	SER N 178	151.439	31.178	92.658	1.00187.50	N
ATOM	24800	CA	SER N 178	150.312	30.971	91.760	1.00186.33	N
ATOM	24801	CB	SER N 178	150.139	32.171	90.825	1.00186.91	N
ATOM	24802	OG	SER N 178	149.135	31.922	89.856	1.00186.58	N
ATOM	24803	C	SER N 178	150.590	29.723	90.941	1.00185.04	N
ATOM	24804	O	SER N 178	151.445	29.729	90.057	1.00184.40	N
ATOM	24805	N	VAL N 179	149.868	28.651	91.243	1.00184.17	N
ATOM	24806	CA	VAL N 179	150.053	27.394	90.536	1.00183.48	N
ATOM	24807	CB	VAL N 179	150.589	26.302	91.495	1.00183.39	N
ATOM	24808	CG1	VAL N 179	151.999	26.656	91.941	1.00183.84	N
ATOM	24809	CG2	VAL N 179	149.679	26.174	92.710	1.00182.92	N
ATOM	24810	C	VAL N 179	148.768	26.900	89.874	1.00182.65	N
ATOM	24811	O	VAL N 179	148.108	25.992	90.383	1.00183.05	N
ATOM	24812	N	PRO N 180	148.399	27.489	88.722	1.00181.11	N
ATOM	24813	CD	PRO N 180	149.176	28.407	87.874	1.00180.47	N
ATOM	24814	CA	PRO N 180	147.177	27.059	88.036	1.00179.74	N
ATOM	24815	CB	PRO N 180	147.280	27.750	86.673	1.00179.77	N
ATOM	24816	CG	PRO N 180	148.758	27.975	86.498	1.00179.66	N
ATOM	24817	C	PRO N 180	147.114	25.537	87.933	1.00178.27	N
ATOM	24818	O	PRO N 180	147.928	24.917	87.251	1.00178.18	N
ATOM	24819	N	ILE N 181	146.144	24.948	88.628	1.00176.73	N
ATOM	24820	CA	ILE N 181	145.967	23.499	88.651	1.00175.28	N
ATOM	24821	CB	ILE N 181	145.168	23.060	89.902	1.00175.71	N
ATOM	24822	CG2	ILE N 181	145.020	21.543	89.922	1.00175.32	N
ATOM	24823	CG1	ILE N 181	145.873	23.546	91.170	1.00175.81	N
ATOM	24824	CD1	ILE N 181	145.123	23.233	92.451	1.00175.65	N
ATOM	24825	C	ILE N 181	145.249	22.955	87.418	1.00173.35	N
ATOM	24826	O	ILE N 181	144.192	23.457	87.029	1.00173.68	N
ATOM	24827	N	PRO N 182	145.823	21.918	86.782	1.00170.62	N
ATOM	24828	CD	PRO N 182	147.187	21.399	86.988	1.00170.15	N
ATOM	24829	CA	PRO N 182	145.217	21.313	85.592	1.00167.33	N
ATOM	24830	CB	PRO N 182	146.298	20.344	85.107	1.00168.16	N
ATOM	24831	CG	PRO N 182	147.570	20.977	85.594	1.00169.17	N
ATOM	24832	C	PRO N 182	143.922	20.589	85.964	1.00163.36	N
ATOM	24833	O	PRO N 182	143.899	19.788	86.902	1.00162.33	N

ATOM	24834	N	LEU N 183	142.848	20.876	85.235	1.00158.93	N
ATOM	24835	CA	LEU N 183	141.566	20.238	85.506	1.00154.49	N
ATOM	24836	CB	LEU N 183	140.908	20.894	86.722	1.00153.15	N
ATOM	24837	CG	LEU N 183	140.721	19.964	87.927	1.00151.11	N
ATOM	24838	CD1	LEU N 183	140.689	20.758	89.219	1.00149.37	N
ATOM	24839	CD2	LEU N 183	139.443	19.164	87.745	1.00150.48	N
ATOM	24840	C	LEU N 183	140.624	20.269	84.306	1.00151.75	N
ATOM	24841	O	LEU N 183	140.257	21.335	83.814	1.00150.15	N
ATOM	24842	N	THR N 184	140.250	19.078	83.844	1.00149.88	N
ATOM	24843	CA	THR N 184	139.355	18.900	82.704	1.00147.84	N
ATOM	24844	CB	THR N 184	140.123	18.401	81.464	1.00146.98	N
ATOM	24845	OG1	THR N 184	139.194	17.907	80.493	1.00146.04	N
ATOM	24846	CG2	THR N 184	141.088	17.290	81.843	1.00145.02	N
ATOM	24847	C	THR N 184	138.280	17.874	83.043	1.00147.16	N
ATOM	24848	O	THR N 184	138.477	17.031	83.914	1.00147.78	N
ATOM	24849	N	VAL N 185	137.145	17.945	82.354	1.00145.79	N
ATOM	24850	CA	VAL N 185	136.046	17.013	82.595	1.00145.31	N
ATOM	24851	CB	VAL N 185	135.170	17.465	83.796	1.00144.76	N
ATOM	24852	CG1	VAL N 185	133.885	16.647	83.849	1.00143.82	N
ATOM	24853	CG2	VAL N 185	135.942	17.307	85.097	1.00142.77	N
ATOM	24854	C	VAL N 185	135.141	16.864	81.375	1.00145.61	N
ATOM	24855	O	VAL N 185	134.657	17.854	80.826	1.00145.05	N
ATOM	24856	N	TYR N 186	134.920	15.621	80.954	1.00146.13	N
ATOM	24857	CA	TYR N 186	134.058	15.342	79.812	1.00146.37	N
ATOM	24858	CB	TYR N 186	134.895	15.070	78.558	1.00146.86	N
ATOM	24859	CG	TYR N 186	135.752	13.829	78.609	1.00146.96	N
ATOM	24860	CD1	TYR N 186	135.437	12.712	77.835	1.00146.90	N
ATOM	24861	CE1	TYR N 186	136.233	11.574	77.858	1.00148.07	N
ATOM	24862	CD2	TYR N 186	136.890	13.775	79.413	1.00147.09	N
ATOM	24863	CE2	TYR N 186	137.695	12.642	79.443	1.00147.67	N
ATOM	24864	CZ	TYR N 186	137.360	11.547	78.664	1.00148.08	N
ATOM	24865	OH	TYR N 186	138.154	10.424	78.691	1.00148.98	N
ATOM	24866	C	TYR N 186	133.161	14.154	80.136	1.00146.32	N
ATOM	24867	O	TYR N 186	133.430	13.410	81.081	1.00145.71	N
ATOM	24868	N	CYS N 187	132.095	13.981	79.359	1.00146.91	N
ATOM	24869	CA	CYS N 187	131.142	12.897	79.596	1.00147.47	N
ATOM	24870	C	CYS N 187	131.045	11.903	78.443	1.00146.62	N
ATOM	24871	O	CYS N 187	131.501	12.173	77.330	1.00146.98	N
ATOM	24872	CB	CYS N 187	129.749	13.481	79.850	1.00148.73	N
ATOM	24873	SG	CYS N 187	129.738	15.068	80.741	1.00149.78	N
ATOM	24874	N	ALA N 188	130.441	10.750	78.721	1.00144.99	N
ATOM	24875	CA	ALA N 188	130.247	9.720	77.709	1.00142.84	N
ATOM	24876	CB	ALA N 188	129.731	8.447	78.353	1.00142.60	N
ATOM	24877	C	ALA N 188	129.217	10.275	76.733	1.00141.66	N
ATOM	24878	O	ALA N 188	129.193	9.917	75.555	1.00140.87	N
ATOM	24879	N	LYS N 189	128.368	11.156	77.255	1.00141.98	N
ATOM	24880	CA	LYS N 189	127.324	11.819	76.481	1.00141.68	N
ATOM	24881	CB	LYS N 189	125.955	11.197	76.775	1.00142.41	N
ATOM	24882	CG	LYS N 189	125.712	9.874	76.065	1.00143.09	N
ATOM	24883	CD	LYS N 189	125.732	10.041	74.548	1.00142.67	N
ATOM	24884	CE	LYS N 189	124.662	11.016	74.084	1.00142.45	N
ATOM	24885	NZ	LYS N 189	124.660	11.178	72.606	1.00143.75	N
ATOM	24886	C	LYS N 189	127.297	13.310	76.812	1.00140.06	N
ATOM	24887	O	LYS N 189	127.126	13.701	77.968	1.00137.97	N
ATOM	24888	N	SER N 190	127.472	14.131	75.783	1.00139.88	N
ATOM	24889	CA	SER N 190	127.484	15.580	75.935	1.00139.63	N
ATOM	24890	CB	SER N 190	127.522	16.250	74.558	1.00140.26	N
ATOM	24891	OG	SER N 190	127.561	17.662	74.678	1.00141.21	N

ATOM	24892	C	SER	N	190	126.280	16.088	76.719	1.00138.75	N
ATOM	24893	O	SER	N	190	125.199	16.288	76.164	1.00138.87	N
ATOM	24894	N	GLN	N	191	126.482	16.298	78.015	1.00137.36	N
ATOM	24895	CA	GLN	N	191	125.429	16.790	78.893	1.00135.68	N
ATOM	24896	CB	GLN	N	191	125.094	15.737	79.945	1.00137.79	N
ATOM	24897	CG	GLN	N	191	126.315	15.214	80.682	1.00141.80	N
ATOM	24898	CD	GLN	N	191	125.961	14.481	81.962	1.00143.30	N
ATOM	24899	OE1	GLN	N	191	125.496	15.086	82.932	1.00142.95	N
ATOM	24900	NE2	GLN	N	191	126.178	13.170	81.970	1.00144.73	N
ATOM	24901	C	GLN	N	191	125.894	18.067	79.585	1.00133.53	N
ATOM	24902	O	GLN	N	191	126.992	18.115	80.140	1.00133.38	N
ATOM	24903	N	ASN	N	192	125.054	19.099	79.554	1.00130.77	N
ATOM	24904	CA	ASN	N	192	125.391	20.376	80.175	1.00126.65	N
ATOM	24905	CB	ASN	N	192	124.253	21.377	79.969	1.00125.25	N
ATOM	24906	CG	ASN	N	192	124.281	22.005	78.591	1.00123.92	N
ATOM	24907	OD1	ASN	N	192	124.478	21.320	77.586	1.00123.53	N
ATOM	24908	ND2	ASN	N	192	124.079	23.314	78.536	1.00123.28	N
ATOM	24909	C	ASN	N	192	125.718	20.251	81.656	1.00123.16	N
ATOM	24910	O	ASN	N	192	124.924	19.733	82.443	1.00122.24	N
ATOM	24911	N	LEU	N	193	126.901	20.739	82.016	1.00119.47	N
ATOM	24912	CA	LEU	N	193	127.385	20.694	83.388	1.00116.68	N
ATOM	24913	CB	LEU	N	193	128.775	20.054	83.430	1.00115.81	N
ATOM	24914	CG	LEU	N	193	128.877	18.570	83.786	1.00114.05	N
ATOM	24915	CD1	LEU	N	193	130.315	18.095	83.633	1.00112.60	N
ATOM	24916	CD2	LEU	N	193	128.393	18.360	85.216	1.00113.35	N
ATOM	24917	C	LEU	N	193	127.454	22.065	84.045	1.00115.25	N
ATOM	24918	O	LEU	N	193	127.346	23.097	83.384	1.00115.44	N
ATOM	24919	N	GLY	N	194	127.644	22.049	85.360	1.00113.49	N
ATOM	24920	CA	GLY	N	194	127.750	23.270	86.133	1.00112.04	N
ATOM	24921	C	GLY	N	194	128.508	22.950	87.406	1.00111.60	N
ATOM	24922	O	GLY	N	194	128.645	21.778	87.756	1.00111.44	N
ATOM	24923	N	TYR	N	195	129.007	23.970	88.101	1.00111.14	N
ATOM	24924	CA	TYR	N	195	129.748	23.738	89.340	1.00109.65	N
ATOM	24925	CB	TYR	N	195	131.094	23.072	89.040	1.00111.92	N
ATOM	24926	CG	TYR	N	195	132.115	24.021	88.452	1.00112.22	N
ATOM	24927	CD1	TYR	N	195	132.036	24.425	87.119	1.00112.53	N
ATOM	24928	CE1	TYR	N	195	132.944	25.334	86.589	1.00112.37	N
ATOM	24929	CD2	TYR	N	195	133.135	24.551	89.245	1.00111.61	N
ATOM	24930	CE2	TYR	N	195	134.048	25.463	88.727	1.00112.46	N
ATOM	24931	CZ	TYR	N	195	133.947	25.850	87.398	1.00114.20	N
ATOM	24932	OH	TYR	N	195	134.848	26.756	86.881	1.00116.63	N
ATOM	24933	C	TYR	N	195	130.012	25.012	90.138	1.00107.66	N
ATOM	24934	O	TYR	N	195	130.106	26.101	89.578	1.00105.32	N
ATOM	24935	N	TYR	N	196	130.139	24.857	91.452	1.00108.03	N
ATOM	24936	CA	TYR	N	196	130.423	25.975	92.339	1.00108.68	N
ATOM	24937	CB	TYR	N	196	129.148	26.451	93.055	1.00109.88	N
ATOM	24938	CG	TYR	N	196	128.591	25.545	94.140	1.00110.94	N
ATOM	24939	CD1	TYR	N	196	129.273	25.359	95.341	1.00111.33	N
ATOM	24940	CE1	TYR	N	196	128.734	24.586	96.363	1.00111.80	N
ATOM	24941	CD2	TYR	N	196	127.348	24.923	93.989	1.00110.65	N
ATOM	24942	CE2	TYR	N	196	126.799	24.142	95.011	1.00110.64	N
ATOM	24943	CZ	TYR	N	196	127.500	23.981	96.198	1.00112.65	N
ATOM	24944	OH	TYR	N	196	126.976	23.226	97.226	1.00113.76	N
ATOM	24945	C	TYR	N	196	131.470	25.512	93.334	1.00110.38	N
ATOM	24946	O	TYR	N	196	131.492	24.349	93.723	1.00108.73	N
ATOM	24947	N	LEU	N	197	132.338	26.425	93.745	1.00115.29	N
ATOM	24948	CA	LEU	N	197	133.412	26.084	94.668	1.00121.08	N
ATOM	24949	CB	LEU	N	197	134.613	26.999	94.417	1.00121.84	N

ATOM	24950	CG	LEU	N	197	134.921	27.273	92.942	1.00123.07	N
ATOM	24951	CD1	LEU	N	197	136.149	28.164	92.840	1.00123.60	N
ATOM	24952	CD2	LEU	N	197	135.136	25.962	92.195	1.00122.57	N
ATOM	24953	C	LEU	N	197	133.020	26.150	96.140	1.00123.88	N
ATOM	24954	O	LEU	N	197	133.334	27.120	96.829	1.00123.61	N
ATOM	24955	N	SER	N	198	132.347	25.109	96.621	1.00127.37	N
ATOM	24956	CA	SER	N	198	131.935	25.059	98.019	1.00132.17	N
ATOM	24957	CB	SER	N	198	130.976	23.890	98.251	1.00133.45	N
ATOM	24958	OG	SER	N	198	131.450	22.702	97.647	1.00136.12	N
ATOM	24959	C	SER	N	198	133.135	24.925	98.950	1.00135.18	N
ATOM	24960	O	SER	N	198	133.907	23.970	98.855	1.00135.50	N
ATOM	24961	N	GLY	N	199	133.281	25.891	99.851	1.00138.29	N
ATOM	24962	CA	GLY	N	199	134.386	25.873	100.793	1.00141.43	N
ATOM	24963	C	GLY	N	199	134.178	26.875	101.911	1.00143.67	N
ATOM	24964	O	GLY	N	199	133.058	27.338	102.132	1.00143.97	N
ATOM	24965	N	THR	N	200	135.255	27.217	102.613	1.00145.41	N
ATOM	24966	CA	THR	N	200	135.184	28.173	103.716	1.00146.54	N
ATOM	24967	CB	THR	N	200	135.411	27.476	105.075	1.00145.39	N
ATOM	24968	OG1	THR	N	200	134.359	26.529	105.304	1.00143.76	N
ATOM	24969	CG2	THR	N	200	135.427	28.497	106.205	1.00142.23	N
ATOM	24970	C	THR	N	200	136.200	29.301	103.563	1.00147.85	N
ATOM	24971	O	THR	N	200	137.389	29.057	103.353	1.00147.27	N
ATOM	24972	N	THR	N	201	135.716	30.535	103.680	1.00149.78	N
ATOM	24973	CA	THR	N	201	136.556	31.722	103.547	1.00151.10	N
ATOM	24974	CB	THR	N	201	135.884	32.772	102.638	1.00150.01	N
ATOM	24975	OG1	THR	N	201	136.818	33.813	102.329	1.00148.11	N
ATOM	24976	CG2	THR	N	201	134.680	33.381	103.343	1.00149.87	N
ATOM	24977	C	THR	N	201	136.831	32.372	104.902	1.00152.63	N
ATOM	24978	O	THR	N	201	136.248	31.990	105.920	1.00152.65	N
ATOM	24979	N	ALA	N	202	137.717	33.363	104.898	1.00153.83	N
ATOM	24980	CA	ALA	N	202	138.082	34.081	106.113	1.00154.52	N
ATOM	24981	CB	ALA	N	202	139.581	33.948	106.366	1.00153.60	N
ATOM	24982	C	ALA	N	202	137.700	35.555	106.009	1.00155.38	N
ATOM	24983	O	ALA	N	202	138.527	36.433	106.256	1.00155.80	N
ATOM	24984	N	ASP	N	203	136.449	35.822	105.641	1.00155.62	N
ATOM	24985	CA	ASP	N	203	135.970	37.195	105.508	1.00155.97	N
ATOM	24986	CB	ASP	N	203	136.794	37.951	104.454	1.00156.44	N
ATOM	24987	CG	ASP	N	203	136.767	37.279	103.090	1.00156.43	N
ATOM	24988	OD1	ASP	N	203	137.261	37.888	102.115	1.00156.01	N
ATOM	24989	OD2	ASP	N	203	136.260	36.143	102.991	1.00156.14	N
ATOM	24990	C	ASP	N	203	134.494	37.258	105.130	1.00155.96	N
ATOM	24991	O	ASP	N	203	133.775	36.262	105.216	1.00155.68	N
ATOM	24992	N	ALA	N	204	134.054	38.442	104.717	1.00156.34	N
ATOM	24993	CA	ALA	N	204	132.674	38.657	104.303	1.00156.41	N
ATOM	24994	CB	ALA	N	204	132.154	39.972	104.872	1.00156.00	N
ATOM	24995	C	ALA	N	204	132.611	38.678	102.777	1.00156.56	N
ATOM	24996	O	ALA	N	204	131.535	38.792	102.191	1.00157.04	N
ATOM	24997	N	GLY	N	205	133.775	38.574	102.142	1.00156.19	N
ATOM	24998	CA	GLY	N	205	133.833	38.563	100.692	1.00155.72	N
ATOM	24999	C	GLY	N	205	133.691	37.145	100.168	1.00156.07	N
ATOM	25000	O	GLY	N	205	133.739	36.909	98.960	1.00155.81	N
ATOM	25001	N	ASN	N	206	133.512	36.205	101.095	1.00156.64	N
ATOM	25002	CA	ASN	N	206	133.357	34.779	100.799	1.00156.53	N
ATOM	25003	CB	ASN	N	206	131.877	34.385	100.889	1.00153.82	N
ATOM	25004	CG	ASN	N	206	131.410	34.195	102.327	1.00150.82	N
ATOM	25005	OD1	ASN	N	206	131.831	33.261	103.009	1.00147.50	N
ATOM	25006	ND2	ASN	N	206	130.540	35.083	102.792	1.00150.10	N
ATOM	25007	C	ASN	N	206	133.955	34.306	99.473	1.00157.62	N

ATOM	25008	O	ASN	N	206	133.278	33.688	98.649	1.00156.97	N
ATOM	25009	N	SER	N	207	135.239	34.598	99.286	1.00159.57	N
ATOM	25010	CA	SER	N	207	135.968	34.205	98.086	1.00161.02	N
ATOM	25011	CB	SER	N	207	135.833	35.272	96.999	1.00160.39	N
ATOM	25012	OG	SER	N	207	136.473	36.476	97.384	1.00159.82	N
ATOM	25013	C	SER	N	207	137.439	34.028	98.452	1.00162.65	N
ATOM	25014	O	SER	N	207	138.285	33.814	97.586	1.00163.44	N
ATOM	25015	N	ILE	N	208	137.731	34.122	99.747	1.00164.05	N
ATOM	25016	CA	ILE	N	208	139.092	33.971	100.252	1.00165.55	N
ATOM	25017	CB	ILE	N	208	139.562	35.255	100.975	1.00165.31	N
ATOM	25018	CG2	ILE	N	208	140.976	35.068	101.510	1.00164.92	N
ATOM	25019	CG1	ILE	N	208	139.511	36.442	100.010	1.00164.50	N
ATOM	25020	CD1	ILE	N	208	139.893	37.769	100.639	1.00163.75	N
ATOM	25021	C	ILE	N	208	139.141	32.800	101.232	1.00167.16	N
ATOM	25022	O	ILE	N	208	139.186	32.995	102.448	1.00166.97	N
ATOM	25023	N	PHE	N	209	139.131	31.584	100.691	1.00169.47	N
ATOM	25024	CA	PHE	N	209	139.159	30.368	101.500	1.00171.24	N
ATOM	25025	CB	PHE	N	209	139.389	29.143	100.601	1.00170.00	N
ATOM	25026	CG	PHE	N	209	138.480	29.089	99.391	1.00168.36	N
ATOM	25027	CD1	PHE	N	209	138.781	29.821	98.242	1.00167.39	N
ATOM	25028	CD2	PHE	N	209	137.319	28.318	99.405	1.00167.74	N
ATOM	25029	CE1	PHE	N	209	137.941	29.785	97.127	1.00166.41	N
ATOM	25030	CE2	PHE	N	209	136.470	28.276	98.294	1.00166.52	N
ATOM	25031	CZ	PHE	N	209	136.783	29.010	97.154	1.00166.26	N
ATOM	25032	C	PHE	N	209	140.237	30.448	102.585	1.00173.18	N
ATOM	25033	O	PHE	N	209	141.256	31.114	102.411	1.00173.78	N
ATOM	25034	N	THR	N	210	140.005	29.768	103.705	1.00175.08	N
ATOM	25035	CA	THR	N	210	140.943	29.785	104.826	1.00177.32	N
ATOM	25036	CB	THR	N	210	140.210	29.541	106.160	1.00176.42	N
ATOM	25037	OG1	THR	N	210	139.405	28.360	106.057	1.00174.96	N
ATOM	25038	CG2	THR	N	210	139.328	30.722	106.507	1.00176.75	N
ATOM	25039	C	THR	N	210	142.091	28.783	104.732	1.00179.73	N
ATOM	25040	O	THR	N	210	142.365	28.222	103.671	1.00179.50	N
ATOM	25041	N	ASN	N	211	142.759	28.579	105.865	1.00182.92	N
ATOM	25042	CA	ASN	N	211	143.885	27.654	105.982	1.00185.91	N
ATOM	25043	CB	ASN	N	211	145.167	28.429	106.322	1.00186.60	N
ATOM	25044	CG	ASN	N	211	146.379	27.522	106.510	1.00187.17	N
ATOM	25045	OD1	ASN	N	211	147.443	27.975	106.933	1.00186.91	N
ATOM	25046	ND2	ASN	N	211	146.224	26.242	106.194	1.00187.18	N
ATOM	25047	C	ASN	N	211	143.581	26.645	107.093	1.00187.69	N
ATOM	25048	O	ASN	N	211	143.368	27.028	108.245	1.00187.39	N
ATOM	25049	N	THR	N	212	143.566	25.361	106.743	1.00189.61	N
ATOM	25050	CA	THR	N	212	143.278	24.300	107.706	1.00190.79	N
ATOM	25051	CB	THR	N	212	142.498	23.142	107.041	1.00190.13	N
ATOM	25052	OG1	THR	N	212	141.387	23.668	106.305	1.00188.96	N
ATOM	25053	CG2	THR	N	212	141.978	22.178	108.097	1.00189.37	N
ATOM	25054	C	THR	N	212	144.557	23.728	108.314	1.00192.21	N
ATOM	25055	O	THR	N	212	145.026	22.663	107.907	1.00192.39	N
ATOM	25056	N	ALA	N	213	145.118	24.432	109.293	1.00193.69	N
ATOM	25057	CA	ALA	N	213	146.344	23.979	109.940	1.00195.11	N
ATOM	25058	CB	ALA	N	213	147.537	24.221	109.015	1.00195.19	N
ATOM	25059	C	ALA	N	213	146.582	24.662	111.284	1.00196.03	N
ATOM	25060	O	ALA	N	213	146.045	25.737	111.554	1.00196.18	N
ATOM	25061	N	SER	N	214	147.391	24.018	112.122	1.00196.81	N
ATOM	25062	CA	SER	N	214	147.737	24.539	113.442	1.00197.14	N
ATOM	25063	CB	SER	N	214	147.475	23.477	114.515	1.00196.38	N
ATOM	25064	OG	SER	N	214	147.837	23.947	115.801	1.00195.53	N
ATOM	25065	C	SER	N	214	149.216	24.930	113.443	1.00197.71	N

ATOM	25066	O	SER	N	214	149.756	25.382	114.454	1.00197.77	N
ATOM	25067	N	PHE	N	215	149.853	24.744	112.288	1.00198.20	N
ATOM	25068	CA	PHE	N	215	151.265	25.058	112.083	1.00198.44	N
ATOM	25069	CB	PHE	N	215	151.809	24.213	110.920	1.00198.81	N
ATOM	25070	CG	PHE	N	215	153.198	24.594	110.454	1.00199.62	N
ATOM	25071	CD1	PHE	N	215	153.697	24.071	109.266	1.00199.83	N
ATOM	25072	CD2	PHE	N	215	153.998	25.480	111.175	1.00200.00	N
ATOM	25073	CE1	PHE	N	215	154.961	24.418	108.798	1.00200.00	N
ATOM	25074	CE2	PHE	N	215	155.267	25.835	110.714	1.00200.00	N
ATOM	25075	CZ	PHE	N	215	155.746	25.305	109.522	1.00200.00	N
ATOM	25076	C	PHE	N	215	151.435	26.543	111.774	1.00198.53	N
ATOM	25077	O	PHE	N	215	151.022	27.014	110.714	1.00198.36	N
ATOM	25078	N	SER	N	216	152.058	27.266	112.703	1.00198.67	N
ATOM	25079	CA	SER	N	216	152.305	28.697	112.549	1.00198.66	N
ATOM	25080	CB	SER	N	216	153.619	28.924	111.790	1.00198.93	N
ATOM	25081	OG	SER	N	216	153.946	30.301	111.721	1.00198.47	N
ATOM	25082	C	SER	N	216	151.153	29.377	111.814	1.00198.34	N
ATOM	25083	O	SER	N	216	151.270	29.712	110.635	1.00198.06	N
ATOM	25084	N	PRO	N	217	150.022	29.589	112.510	1.00198.03	N
ATOM	25085	CD	PRO	N	217	149.864	29.378	113.960	1.00198.08	N
ATOM	25086	CA	PRO	N	217	148.823	30.228	111.956	1.00197.46	N
ATOM	25087	CB	PRO	N	217	147.863	30.231	113.141	1.00197.77	N
ATOM	25088	CG	PRO	N	217	148.795	30.387	114.301	1.00198.21	N
ATOM	25089	C	PRO	N	217	149.081	31.634	111.424	1.00196.73	N
ATOM	25090	O	PRO	N	217	148.783	32.627	112.091	1.00196.78	N
ATOM	25091	N	ALA	N	218	149.634	31.713	110.218	1.00195.37	N
ATOM	25092	CA	ALA	N	218	149.929	32.997	109.598	1.00193.67	N
ATOM	25093	CB	ALA	N	218	150.632	32.783	108.265	1.00193.78	N
ATOM	25094	C	ALA	N	218	148.647	33.800	109.396	1.00192.25	N
ATOM	25095	O	ALA	N	218	147.578	33.239	109.147	1.00192.16	N
ATOM	25096	N	GLN	N	219	148.765	35.118	109.510	1.00190.50	N
ATOM	25097	CA	GLN	N	219	147.628	36.017	109.345	1.00188.49	N
ATOM	25098	CB	GLN	N	219	147.886	37.313	110.114	1.00187.45	N
ATOM	25099	CG	GLN	N	219	148.061	37.122	111.610	1.00185.15	N
ATOM	25100	CD	GLN	N	219	148.745	38.302	112.268	1.00183.96	N
ATOM	25101	OE1	GLN	N	219	149.960	38.468	112.163	1.00181.78	N
ATOM	25102	NE2	GLN	N	219	147.964	39.135	112.944	1.00183.36	N
ATOM	25103	C	GLN	N	219	147.390	36.336	107.869	1.00187.44	N
ATOM	25104	O	GLN	N	219	148.315	36.714	107.153	1.00187.73	N
ATOM	25105	N	GLY	N	220	146.150	36.175	107.418	1.00185.67	N
ATOM	25106	CA	GLY	N	220	145.820	36.465	106.033	1.00183.10	N
ATOM	25107	C	GLY	N	220	146.457	35.559	104.995	1.00181.34	N
ATOM	25108	O	GLY	N	220	147.166	36.031	104.107	1.00181.17	N
ATOM	25109	N	VAL	N	221	146.202	34.258	105.102	1.00179.57	N
ATOM	25110	CA	VAL	N	221	146.749	33.289	104.157	1.00177.47	N
ATOM	25111	CB	VAL	N	221	147.868	32.441	104.796	1.00176.84	N
ATOM	25112	CG1	VAL	N	221	148.404	31.443	103.781	1.00176.10	N
ATOM	25113	CG2	VAL	N	221	148.983	33.342	105.292	1.00176.52	N
ATOM	25114	C	VAL	N	221	145.653	32.351	103.673	1.00176.31	N
ATOM	25115	O	VAL	N	221	145.332	31.361	104.333	1.00176.14	N
ATOM	25116	N	GLY	N	222	145.079	32.670	102.518	1.00175.05	N
ATOM	25117	CA	GLY	N	222	144.022	31.844	101.967	1.00173.68	N
ATOM	25118	C	GLY	N	222	144.226	31.520	100.498	1.00172.31	N
ATOM	25119	O	GLY	N	222	145.353	31.540	100.000	1.00172.50	N
ATOM	25120	N	VAL	N	223	143.132	31.217	99.805	1.00170.29	N
ATOM	25121	CA	VAL	N	223	143.179	30.886	98.384	1.00167.68	N
ATOM	25122	CB	VAL	N	223	143.154	29.351	98.162	1.00168.37	N
ATOM	25123	CG1	VAL	N	223	143.244	29.032	96.677	1.00167.89	N

ATOM	25124	CG2	VAL	N	223	144.302	28.699	98.913	1.00168.25	N
ATOM	25125	C	VAL	N	223	141.987	31.506	97.659	1.00165.18	N
ATOM	25126	O	VAL	N	223	141.005	31.905	98.284	1.00164.77	N
ATOM	25127	N	GLN	N	224	142.084	31.588	96.338	1.00162.32	N
ATOM	25128	CA	GLN	N	224	141.016	32.151	95.527	1.00159.42	N
ATOM	25129	CB	GLN	N	224	140.951	33.665	95.721	1.00159.27	N
ATOM	25130	CG	GLN	N	224	139.678	34.295	95.198	1.00157.49	N
ATOM	25131	CD	GLN	N	224	139.592	35.772	95.513	1.00155.52	N
ATOM	25132	OE1	GLN	N	224	139.782	36.185	96.658	1.00154.60	N
ATOM	25133	NE2	GLN	N	224	139.297	36.576	94.502	1.00153.81	N
ATOM	25134	C	GLN	N	224	141.278	31.818	94.064	1.00157.50	N
ATOM	25135	O	GLN	N	224	141.967	32.555	93.355	1.00157.13	N
ATOM	25136	N	LEU	N	225	140.719	30.694	93.627	1.00154.97	N
ATOM	25137	CA	LEU	N	225	140.878	30.211	92.260	1.00151.70	N
ATOM	25138	CB	LEU	N	225	140.022	28.958	92.055	1.00153.46	N
ATOM	25139	CG	LEU	N	225	139.966	27.976	93.235	1.00154.82	N
ATOM	25140	CD1	LEU	N	225	139.172	26.747	92.826	1.00154.43	N
ATOM	25141	CD2	LEU	N	225	141.371	27.580	93.670	1.00155.15	N
ATOM	25142	C	LEU	N	225	140.498	31.272	91.231	1.00148.24	N
ATOM	25143	O	LEU	N	225	139.940	32.313	91.578	1.00147.95	N
ATOM	25144	N	THR	N	226	140.799	31.003	89.964	1.00144.57	N
ATOM	25145	CA	THR	N	226	140.488	31.945	88.895	1.00141.44	N
ATOM	25146	CB	THR	N	226	141.372	33.205	88.991	1.00140.92	N
ATOM	25147	OG1	THR	N	226	141.212	33.990	87.804	1.00138.61	N
ATOM	25148	CG2	THR	N	226	142.833	32.824	89.152	1.00139.63	N
ATOM	25149	C	THR	N	226	140.647	31.363	87.496	1.00139.82	N
ATOM	25150	O	THR	N	226	141.748	30.994	87.083	1.00139.53	N
ATOM	25151	N	ARG	N	227	139.539	31.289	86.766	1.00138.35	N
ATOM	25152	CA	ARG	N	227	139.552	30.769	85.405	1.00137.82	N
ATOM	25153	CB	ARG	N	227	138.168	30.242	85.025	1.00138.65	N
ATOM	25154	CG	ARG	N	227	137.015	31.158	85.406	1.00138.28	N
ATOM	25155	CD	ARG	N	227	135.679	30.533	85.028	1.00138.93	N
ATOM	25156	NE	ARG	N	227	134.592	30.984	85.894	1.00138.02	N
ATOM	25157	CZ	ARG	N	227	134.136	32.229	85.946	1.00137.81	N
ATOM	25158	NH1	ARG	N	227	133.147	32.535	86.773	1.00137.87	N
ATOM	25159	NH2	ARG	N	227	134.659	33.166	85.169	1.00137.12	N
ATOM	25160	C	ARG	N	227	139.977	31.855	84.431	1.00137.52	N
ATOM	25161	O	ARG	N	227	139.145	32.608	83.924	1.00137.09	N
ATOM	25162	N	ASN	N	228	141.280	31.927	84.176	1.00137.76	N
ATOM	25163	CA	ASN	N	228	141.843	32.924	83.271	1.00137.68	N
ATOM	25164	CB	ASN	N	228	141.412	32.644	81.829	1.00137.02	N
ATOM	25165	CG	ASN	N	228	142.224	31.541	81.184	1.00136.18	N
ATOM	25166	OD1	ASN	N	228	142.062	31.251	80.000	1.00135.87	N
ATOM	25167	ND2	ASN	N	228	143.107	30.921	81.960	1.00135.53	N
ATOM	25168	C	ASN	N	228	141.468	34.353	83.650	1.00137.00	N
ATOM	25169	O	ASN	N	228	140.666	34.998	82.973	1.00136.54	N
ATOM	25170	N	GLY	N	229	142.059	34.840	84.736	1.00136.48	N
ATOM	25171	CA	GLY	N	229	141.787	36.191	85.188	1.00136.08	N
ATOM	25172	C	GLY	N	229	140.522	36.325	86.013	1.00135.46	N
ATOM	25173	O	GLY	N	229	140.546	36.884	87.110	1.00135.60	N
ATOM	25174	N	THR	N	230	139.411	35.818	85.487	1.00134.69	N
ATOM	25175	CA	THR	N	230	138.135	35.898	86.189	1.00133.55	N
ATOM	25176	CB	THR	N	230	136.957	35.508	85.263	1.00133.31	N
ATOM	25177	OG1	THR	N	230	137.038	36.242	84.035	1.00129.93	N
ATOM	25178	CG2	THR	N	230	135.628	35.827	85.938	1.00133.50	N
ATOM	25179	C	THR	N	230	138.135	34.966	87.395	1.00133.08	N
ATOM	25180	O	THR	N	230	137.993	33.754	87.247	1.00134.21	N
ATOM	25181	N	ILE	N	231	138.304	35.530	88.587	1.00132.88	N

ATOM	25182	CA	ILE	N	231	138.308	34.726	89.804	1.00133.28	N
ATOM	25183	CB	ILE	N	231	138.808	35.545	91.031	1.00133.62	N
ATOM	25184	CG2	ILE	N	231	138.440	34.838	92.326	1.00133.48	N
ATOM	25185	CG1	ILE	N	231	140.326	35.739	90.944	1.00133.71	N
ATOM	25186	CD1	ILE	N	231	140.943	36.453	92.135	1.00131.13	N
ATOM	25187	C	ILE	N	231	136.902	34.190	90.074	1.00133.40	N
ATOM	25188	O	ILE	N	231	135.906	34.774	89.640	1.00132.96	N
ATOM	25189	N	ILE	N	232	136.831	33.068	90.784	1.00133.19	N
ATOM	25190	CA	ILE	N	232	135.555	32.442	91.102	1.00131.56	N
ATOM	25191	CB	ILE	N	232	135.455	31.037	90.468	1.00132.36	N
ATOM	25192	CG2	ILE	N	232	134.065	30.457	90.702	1.00132.75	N
ATOM	25193	CG1	ILE	N	232	135.749	31.116	88.969	1.00132.11	N
ATOM	25194	CD1	ILE	N	232	135.837	29.765	88.297	1.00132.95	N
ATOM	25195	C	ILE	N	232	135.350	32.299	92.606	1.00129.38	N
ATOM	25196	O	ILE	N	232	136.039	31.520	93.266	1.00128.94	N
ATOM	25197	N	PRO	N	233	134.407	33.067	93.168	1.00127.82	N
ATOM	25198	CD	PRO	N	233	133.711	34.200	92.530	1.00127.19	N
ATOM	25199	CA	PRO	N	233	134.115	33.009	94.605	1.00126.46	N
ATOM	25200	CB	PRO	N	233	133.395	34.329	94.859	1.00127.51	N
ATOM	25201	CG	PRO	N	233	132.671	34.561	93.562	1.00128.55	N
ATOM	25202	C	PRO	N	233	133.244	31.791	94.922	1.00124.57	N
ATOM	25203	O	PRO	N	233	132.598	31.238	94.031	1.00125.11	N
ATOM	25204	N	ALA	N	234	133.229	31.373	96.183	1.00122.03	N
ATOM	25205	CA	ALA	N	234	132.441	30.214	96.601	1.00119.71	N
ATOM	25206	CB	ALA	N	234	132.588	30.005	98.104	1.00119.98	N
ATOM	25207	C	ALA	N	234	130.960	30.340	96.236	1.00117.86	N
ATOM	25208	O	ALA	N	234	130.493	31.416	95.871	1.00119.63	N
ATOM	25209	N	ASN	N	235	130.233	29.230	96.333	1.00114.31	N
ATOM	25210	CA	ASN	N	235	128.800	29.190	96.033	1.00110.53	N
ATOM	25211	CB	ASN	N	235	128.008	29.704	97.238	1.00106.30	N
ATOM	25212	CG	ASN	N	235	128.083	28.765	98.426	1.00102.58	N
ATOM	25213	OD1	ASN	N	235	127.323	27.802	98.524	1.00102.78	N
ATOM	25214	ND2	ASN	N	235	129.017	29.032	99.330	1.00 99.58	N
ATOM	25215	C	ASN	N	235	128.403	29.969	94.781	1.00109.66	N
ATOM	25216	O	ASN	N	235	127.251	30.365	94.622	1.00109.28	N
ATOM	25217	N	ASN	N	236	129.362	30.177	93.890	1.00110.75	N
ATOM	25218	CA	ASN	N	236	129.110	30.902	92.655	1.00112.49	N
ATOM	25219	CB	ASN	N	236	130.166	31.994	92.460	1.00115.87	N
ATOM	25220	CG	ASN	N	236	129.934	32.818	91.203	1.00118.71	N
ATOM	25221	OD1	ASN	N	236	129.003	33.623	91.135	1.00118.42	N
ATOM	25222	ND2	ASN	N	236	130.783	32.616	90.198	1.00119.37	N
ATOM	25223	C	ASN	N	236	129.160	29.926	91.487	1.00112.30	N
ATOM	25224	O	ASN	N	236	130.121	29.913	90.717	1.00111.71	N
ATOM	25225	N	THR	N	237	128.127	29.099	91.371	1.00112.45	N
ATOM	25226	CA	THR	N	237	128.051	28.121	90.296	1.00113.58	N
ATOM	25227	CB	THR	N	237	126.621	27.558	90.166	1.00112.42	N
ATOM	25228	OG1	THR	N	237	126.282	26.848	91.362	1.00112.02	N
ATOM	25229	CG2	THR	N	237	126.517	26.613	88.979	1.00111.64	N
ATOM	25230	C	THR	N	237	128.468	28.747	88.970	1.00115.29	N
ATOM	25231	O	THR	N	237	128.138	29.898	88.685	1.00115.28	N
ATOM	25232	N	VAL	N	238	129.208	27.989	88.168	1.00116.81	N
ATOM	25233	CA	VAL	N	238	129.658	28.483	86.878	1.00119.12	N
ATOM	25234	CB	VAL	N	238	131.192	28.614	86.833	1.00119.60	N
ATOM	25235	CG1	VAL	N	238	131.617	29.324	85.553	1.00119.88	N
ATOM	25236	CG2	VAL	N	238	131.683	29.373	88.056	1.00119.89	N
ATOM	25237	C	VAL	N	238	129.205	27.546	85.769	1.00120.55	N
ATOM	25238	O	VAL	N	238	129.088	26.337	85.975	1.00119.25	N
ATOM	25239	N	SER	N	239	128.949	28.117	84.594	1.00123.01	N

ATOM	25240	CA	SER	N	239	128.493	27.353	83.438	1.00124.83	N
ATOM	25241	CB	SER	N	239	127.834	28.286	82.415	1.00124.28	N
ATOM	25242	OG	SER	N	239	127.393	27.565	81.276	1.00123.95	N
ATOM	25243	C	SER	N	239	129.606	26.568	82.753	1.00126.29	N
ATOM	25244	O	SER	N	239	130.791	26.867	82.904	1.00126.97	N
ATOM	25245	N	LEU	N	240	129.201	25.557	81.996	1.00127.05	N
ATOM	25246	CA	LEU	N	240	130.126	24.707	81.267	1.00126.89	N
ATOM	25247	CB	LEU	N	240	130.428	23.449	82.083	1.00126.27	N
ATOM	25248	CG	LEU	N	240	131.053	23.714	83.457	1.00125.34	N
ATOM	25249	CD1	LEU	N	240	131.043	22.450	84.295	1.00124.66	N
ATOM	25250	CD2	LEU	N	240	132.471	24.234	83.278	1.00125.15	N
ATOM	25251	C	LEU	N	240	129.438	24.347	79.960	1.00127.66	N
ATOM	25252	O	LEU	N	240	130.062	24.324	78.901	1.00128.43	N
ATOM	25253	N	GLY	N	241	128.139	24.078	80.047	1.00127.98	N
ATOM	25254	CA	GLY	N	241	127.359	23.737	78.872	1.00128.44	N
ATOM	25255	C	GLY	N	241	127.854	22.541	78.082	1.00128.82	N
ATOM	25256	O	GLY	N	241	127.910	21.423	78.595	1.00128.11	N
ATOM	25257	N	ALA	N	242	128.209	22.783	76.824	1.00129.55	N
ATOM	25258	CA	ALA	N	242	128.694	21.734	75.935	1.00129.75	N
ATOM	25259	CB	ALA	N	242	129.073	22.333	74.584	1.00128.08	N
ATOM	25260	C	ALA	N	242	129.882	20.976	76.519	1.00130.32	N
ATOM	25261	O	ALA	N	242	131.029	21.417	76.403	1.00131.60	N
ATOM	25262	N	VAL	N	243	129.598	19.835	77.143	1.00129.73	N
ATOM	25263	CA	VAL	N	243	130.637	18.996	77.737	1.00128.68	N
ATOM	25264	CB	VAL	N	243	130.611	19.077	79.273	1.00124.84	N
ATOM	25265	CG1	VAL	N	243	131.772	18.286	79.852	1.00121.24	N
ATOM	25266	CG2	VAL	N	243	130.679	20.526	79.714	1.00122.72	N
ATOM	25267	C	VAL	N	243	130.450	17.537	77.315	1.00130.55	N
ATOM	25268	O	VAL	N	243	129.830	16.745	78.030	1.00131.00	N
ATOM	25269	N	GLY	N	244	130.993	17.192	76.149	1.00131.23	N
ATOM	25270	CA	GLY	N	244	130.873	15.838	75.641	1.00131.18	N
ATOM	25271	C	GLY	N	244	132.118	14.989	75.813	1.00131.35	N
ATOM	25272	O	GLY	N	244	132.562	14.754	76.936	1.00129.72	N
ATOM	25273	N	THR	N	245	132.680	14.528	74.697	1.00133.30	N
ATOM	25274	CA	THR	N	245	133.874	13.683	74.713	1.00135.04	N
ATOM	25275	CB	THR	N	245	133.912	12.745	73.486	1.00134.87	N
ATOM	25276	OG1	THR	N	245	133.925	13.526	72.284	1.00133.67	N
ATOM	25277	CG2	THR	N	245	132.701	11.823	73.481	1.00133.99	N
ATOM	25278	C	THR	N	245	135.180	14.477	74.746	1.00136.19	N
ATOM	25279	O	THR	N	245	136.218	13.954	75.156	1.00136.82	N
ATOM	25280	N	SER	N	246	135.125	15.732	74.309	1.00136.37	N
ATOM	25281	CA	SER	N	246	136.303	16.596	74.299	1.00135.64	N
ATOM	25282	CB	SER	N	246	136.071	17.780	73.361	1.00134.76	N
ATOM	25283	OG	SER	N	246	135.683	17.333	72.075	1.00132.82	N
ATOM	25284	C	SER	N	246	136.577	17.106	75.712	1.00136.00	N
ATOM	25285	O	SER	N	246	136.015	18.118	76.133	1.00135.48	N
ATOM	25286	N	ALA	N	247	137.440	16.398	76.437	1.00136.58	N
ATOM	25287	CA	ALA	N	247	137.792	16.754	77.809	1.00137.72	N
ATOM	25288	CB	ALA	N	247	139.022	15.970	78.247	1.00136.90	N
ATOM	25289	C	ALA	N	247	138.039	18.248	77.983	1.00139.19	N
ATOM	25290	O	ALA	N	247	139.155	18.724	77.778	1.00138.82	N
ATOM	25291	N	VAL	N	248	136.995	18.977	78.370	1.00141.19	N
ATOM	25292	CA	VAL	N	248	137.086	20.423	78.577	1.00142.08	N
ATOM	25293	CB	VAL	N	248	135.677	21.087	78.567	1.00141.66	N
ATOM	25294	CG1	VAL	N	248	135.813	22.600	78.662	1.00140.95	N
ATOM	25295	CG2	VAL	N	248	134.918	20.703	77.300	1.00139.02	N
ATOM	25296	C	VAL	N	248	137.770	20.736	79.913	1.00142.61	N
ATOM	25297	O	VAL	N	248	137.461	20.120	80.934	1.00141.93	N

ATOM	25298	N	SER N 249	138.698	21.691	79.896	1.00143.55	N
ATOM	25299	CA	SER N 249	139.426	22.081	81.103	1.00144.13	N
ATOM	25300	CB	SER N 249	140.891	22.388	80.766	1.00142.74	N
ATOM	25301	OG	SER N 249	141.664	22.572	81.941	1.00138.03	N
ATOM	25302	C	SER N 249	138.773	23.301	81.753	1.00145.51	N
ATOM	25303	O	SER N 249	138.027	24.038	81.101	1.00146.10	N
ATOM	25304	N	LEU N 250	139.060	23.507	83.036	1.00145.66	N
ATOM	25305	CA	LEU N 250	138.492	24.622	83.792	1.00145.03	N
ATOM	25306	CB	LEU N 250	138.311	24.214	85.256	1.00143.29	N
ATOM	25307	CG	LEU N 250	137.315	23.087	85.537	1.00141.67	N
ATOM	25308	CD1	LEU N 250	137.409	22.666	86.990	1.00141.02	N
ATOM	25309	CD2	LEU N 250	135.908	23.555	85.205	1.00140.62	N
ATOM	25310	C	LEU N 250	139.315	25.906	83.726	1.00145.33	N
ATOM	25311	O	LEU N 250	138.767	27.006	83.796	1.00145.06	N
ATOM	25312	N	GLY N 251	140.630	25.766	83.593	1.00146.22	N
ATOM	25313	CA	GLY N 251	141.486	26.935	83.534	1.00146.75	N
ATOM	25314	C	GLY N 251	141.640	27.535	84.916	1.00147.18	N
ATOM	25315	O	GLY N 251	141.848	28.740	85.070	1.00147.47	N
ATOM	25316	N	LEU N 252	141.535	26.680	85.927	1.00147.47	N
ATOM	25317	CA	LEU N 252	141.656	27.104	87.312	1.00148.59	N
ATOM	25318	CB	LEU N 252	141.231	25.968	88.241	1.00148.05	N
ATOM	25319	CG	LEU N 252	139.895	25.306	87.903	1.00147.89	N
ATOM	25320	CD1	LEU N 252	139.599	24.231	88.929	1.00148.32	N
ATOM	25321	CD2	LEU N 252	138.781	26.342	87.878	1.00148.10	N
ATOM	25322	C	LEU N 252	143.085	27.517	87.635	1.00149.98	N
ATOM	25323	O	LEU N 252	144.032	26.779	87.360	1.00150.09	N
ATOM	25324	N	THR N 253	143.233	28.701	88.223	1.00151.62	N
ATOM	25325	CA	THR N 253	144.547	29.217	88.588	1.00152.62	N
ATOM	25326	CB	THR N 253	144.880	30.496	87.796	1.00150.69	N
ATOM	25327	OG1	THR N 253	144.525	30.315	86.420	1.00147.86	N
ATOM	25328	CG2	THR N 253	146.368	30.801	87.888	1.00149.44	N
ATOM	25329	C	THR N 253	144.583	29.541	90.079	1.00154.70	N
ATOM	25330	O	THR N 253	144.469	30.703	90.470	1.00154.54	N
ATOM	25331	N	ALA N 254	144.735	28.507	90.905	1.00156.99	N
ATOM	25332	CA	ALA N 254	144.785	28.676	92.356	1.00159.33	N
ATOM	25333	CB	ALA N 254	145.085	27.340	93.027	1.00157.41	N
ATOM	25334	C	ALA N 254	145.845	29.703	92.736	1.00161.96	N
ATOM	25335	O	ALA N 254	147.042	29.419	92.683	1.00162.35	N
ATOM	25336	N	ASN N 255	145.398	30.898	93.117	1.00164.67	N
ATOM	25337	CA	ASN N 255	146.308	31.977	93.498	1.00166.88	N
ATOM	25338	CB	ASN N 255	145.997	33.243	92.687	1.00166.88	N
ATOM	25339	CG	ASN N 255	146.266	33.071	91.200	1.00166.49	N
ATOM	25340	OD1	ASN N 255	146.058	33.992	90.411	1.00165.58	N
ATOM	25341	ND2	ASN N 255	146.731	31.890	90.813	1.00167.27	N
ATOM	25342	C	ASN N 255	146.240	32.300	94.990	1.00168.43	N
ATOM	25343	O	ASN N 255	145.370	31.801	95.707	1.00167.77	N
ATOM	25344	N	TYR N 256	147.171	33.137	95.444	1.00170.47	N
ATOM	25345	CA	TYR N 256	147.247	33.544	96.846	1.00171.88	N
ATOM	25346	CB	TYR N 256	148.622	34.158	97.147	1.00172.93	N
ATOM	25347	CG	TYR N 256	149.687	33.145	97.511	1.00173.99	N
ATOM	25348	CD1	TYR N 256	150.027	32.111	96.638	1.00174.50	N
ATOM	25349	CE1	TYR N 256	150.995	31.163	96.983	1.00174.72	N
ATOM	25350	CD2	TYR N 256	150.344	33.210	98.741	1.00174.34	N
ATOM	25351	CE2	TYR N 256	151.311	32.267	99.095	1.00174.90	N
ATOM	25352	CZ	TYR N 256	151.631	31.246	98.212	1.00174.75	N
ATOM	25353	OH	TYR N 256	152.575	30.306	98.562	1.00174.24	N
ATOM	25354	C	TYR N 256	146.150	34.534	97.227	1.00172.41	N
ATOM	25355	O	TYR N 256	145.863	35.475	96.486	1.00172.55	N

ATOM	25356	N	ALA N 257	145.548	34.314	98.394	1.00173.10	N
ATOM	25357	CA	ALA N 257	144.476	35.173	98.887	1.00173.84	N
ATOM	25358	CB	ALA N 257	143.210	34.349	99.100	1.00173.76	N
ATOM	25359	C	ALA N 257	144.850	35.895	100.179	1.00174.30	N
ATOM	25360	O	ALA N 257	144.720	35.342	101.273	1.00174.08	N
ATOM	25361	N	ARG N 258	145.311	37.134	100.040	1.00175.10	N
ATOM	25362	CA	ARG N 258	145.698	37.957	101.181	1.00175.90	N
ATOM	25363	CB	ARG N 258	146.679	39.042	100.722	1.00176.23	N
ATOM	25364	CG	ARG N 258	147.272	39.899	101.830	1.00175.92	N
ATOM	25365	CD	ARG N 258	148.353	40.817	101.272	1.00175.59	N
ATOM	25366	NE	ARG N 258	148.872	41.743	102.275	1.00175.72	N
ATOM	25367	CZ	ARG N 258	149.852	42.614	102.052	1.00175.78	N
ATOM	25368	NH1	ARG N 258	150.259	43.421	103.024	1.00175.64	N
ATOM	25369	NH2	ARG N 258	150.431	42.675	100.860	1.00175.38	N
ATOM	25370	C	ARG N 258	144.429	38.585	101.755	1.00176.50	N
ATOM	25371	O	ARG N 258	143.589	39.084	101.006	1.00176.35	N
ATOM	25372	N	THR N 259	144.287	38.557	103.077	1.00177.38	N
ATOM	25373	CA	THR N 259	143.098	39.104	103.727	1.00178.52	N
ATOM	25374	CB	THR N 259	142.597	38.155	104.836	1.00178.53	N
ATOM	25375	OG1	THR N 259	143.591	38.049	105.863	1.00177.96	N
ATOM	25376	CG2	THR N 259	142.319	36.773	104.266	1.00178.41	N
ATOM	25377	C	THR N 259	143.278	40.500	104.326	1.00179.41	N
ATOM	25378	O	THR N 259	143.390	41.488	103.600	1.00178.79	N
ATOM	25379	N	GLY N 260	143.289	40.572	105.655	1.00180.82	N
ATOM	25380	CA	GLY N 260	143.443	41.842	106.342	1.00182.12	N
ATOM	25381	C	GLY N 260	144.650	42.645	105.899	1.00183.15	N
ATOM	25382	O	GLY N 260	144.506	43.689	105.263	1.00183.44	N
ATOM	25383	N	GLY N 261	145.843	42.163	106.238	1.00184.04	N
ATOM	25384	CA	GLY N 261	147.059	42.861	105.858	1.00184.91	N
ATOM	25385	C	GLY N 261	148.305	42.011	106.028	1.00185.61	N
ATOM	25386	O	GLY N 261	149.073	41.820	105.085	1.00185.76	N
ATOM	25387	N	GLN N 262	148.504	41.502	107.239	1.00186.17	N
ATOM	25388	CA	GLN N 262	149.656	40.665	107.552	1.00187.07	N
ATOM	25389	CB	GLN N 262	149.591	40.234	109.022	1.00187.40	N
ATOM	25390	CG	GLN N 262	150.697	39.284	109.468	1.00187.97	N
ATOM	25391	CD	GLN N 262	152.066	39.939	109.512	1.00188.07	N
ATOM	25392	OE1	GLN N 262	153.057	39.299	109.860	1.00187.86	N
ATOM	25393	NE2	GLN N 262	152.126	41.218	109.160	1.00188.60	N
ATOM	25394	C	GLN N 262	149.709	39.429	106.652	1.00187.71	N
ATOM	25395	O	GLN N 262	148.678	38.957	106.172	1.00187.75	N
ATOM	25396	N	VAL N 263	150.917	38.920	106.421	1.00188.23	N
ATOM	25397	CA	VAL N 263	151.130	37.728	105.598	1.00188.04	N
ATOM	25398	CB	VAL N 263	151.506	38.101	104.140	1.00187.62	N
ATOM	25399	CG1	VAL N 263	151.547	36.849	103.275	1.00187.05	N
ATOM	25400	CG2	VAL N 263	150.508	39.099	103.578	1.00186.81	N
ATOM	25401	C	VAL N 263	152.272	36.917	106.223	1.00187.94	N
ATOM	25402	O	VAL N 263	153.278	36.627	105.572	1.00187.76	N
ATOM	25403	N	THR N 264	152.095	36.560	107.494	1.00187.75	N
ATOM	25404	CA	THR N 264	153.084	35.803	108.259	1.00187.24	N
ATOM	25405	CB	THR N 264	152.541	35.475	109.675	1.00186.52	N
ATOM	25406	OG1	THR N 264	151.891	36.632	110.218	1.00185.15	N
ATOM	25407	CG2	THR N 264	153.676	35.078	110.609	1.00185.63	N
ATOM	25408	C	THR N 264	153.508	34.501	107.574	1.00187.40	N
ATOM	25409	O	THR N 264	153.100	34.215	106.446	1.00187.03	N
ATOM	25410	N	ALA N 265	154.333	33.721	108.266	1.00187.52	N
ATOM	25411	CA	ALA N 265	154.828	32.453	107.747	1.00187.22	N
ATOM	25412	CB	ALA N 265	156.299	32.287	108.108	1.00187.03	N
ATOM	25413	C	ALA N 265	154.022	31.278	108.294	1.00187.02	N

ATOM	25414	O	ALA	N	265	153.553	31.310	109.434	1.00186.76	N
ATOM	25415	N	GLY	N	266	153.866	30.243	107.473	1.00186.71	N
ATOM	25416	CA	GLY	N	266	153.120	29.069	107.889	1.00186.16	N
ATOM	25417	C	GLY	N	266	152.836	28.116	106.742	1.00185.74	N
ATOM	25418	O	GLY	N	266	153.732	27.785	105.966	1.00186.00	N
ATOM	25419	N	ASN	N	267	151.585	27.676	106.634	1.00185.17	N
ATOM	25420	CA	ASN	N	267	151.176	26.754	105.577	1.00184.03	N
ATOM	25421	CB	ASN	N	267	150.681	25.437	106.183	1.00183.84	N
ATOM	25422	CG	ASN	N	267	151.801	24.607	106.769	1.00183.69	N
ATOM	25423	OD1	ASN	N	267	151.562	23.586	107.414	1.00184.04	N
ATOM	25424	ND2	ASN	N	267	153.035	25.036	106.541	1.00183.89	N
ATOM	25425	C	ASN	N	267	150.078	27.322	104.684	1.00183.09	N
ATOM	25426	O	ASN	N	267	149.196	28.043	105.146	1.00183.27	N
ATOM	25427	N	VAL	N	268	150.144	26.990	103.399	1.00181.85	N
ATOM	25428	CA	VAL	N	268	149.143	27.426	102.427	1.00180.41	N
ATOM	25429	CB	VAL	N	268	149.810	27.989	101.142	1.00180.19	N
ATOM	25430	CG1	VAL	N	268	148.751	28.464	100.163	1.00179.91	N
ATOM	25431	CG2	VAL	N	268	150.745	29.131	101.498	1.00179.18	N
ATOM	25432	C	VAL	N	268	148.326	26.176	102.073	1.00179.50	N
ATOM	25433	O	VAL	N	268	148.341	25.710	100.931	1.00179.40	N
ATOM	25434	N	GLN	N	269	147.614	25.639	103.061	1.00178.38	N
ATOM	25435	CA	GLN	N	269	146.817	24.431	102.872	1.00176.96	N
ATOM	25436	CB	GLN	N	269	147.273	23.379	103.883	1.00175.64	N
ATOM	25437	CG	GLN	N	269	148.790	23.185	103.929	1.00173.20	N
ATOM	25438	CD	GLN	N	269	149.205	22.061	104.861	1.00171.78	N
ATOM	25439	OE1	GLN	N	269	148.851	20.903	104.645	1.00171.25	N
ATOM	25440	NE2	GLN	N	269	149.952	22.398	105.906	1.00170.98	N
ATOM	25441	C	GLN	N	269	145.311	24.676	103.010	1.00176.42	N
ATOM	25442	O	GLN	N	269	144.835	25.129	104.049	1.00176.41	N
ATOM	25443	N	SER	N	270	144.572	24.369	101.948	1.00175.79	N
ATOM	25444	CA	SER	N	270	143.123	24.542	101.930	1.00174.80	N
ATOM	25445	CB	SER	N	270	142.751	25.834	101.190	1.00174.38	N
ATOM	25446	OG	SER	N	270	141.346	25.984	101.080	1.00173.02	N
ATOM	25447	C	SER	N	270	142.431	23.352	101.269	1.00174.04	N
ATOM	25448	O	SER	N	270	143.069	22.554	100.580	1.00173.79	N
ATOM	25449	N	ILE	N	271	141.121	23.245	101.485	1.00173.03	N
ATOM	25450	CA	ILE	N	271	140.325	22.162	100.913	1.00170.75	N
ATOM	25451	CB	ILE	N	271	139.940	21.100	101.983	1.00171.37	N
ATOM	25452	CG2	ILE	N	271	139.154	19.973	101.327	1.00171.59	N
ATOM	25453	CG1	ILE	N	271	141.194	20.527	102.652	1.00171.40	N
ATOM	25454	CD1	ILE	N	271	141.822	21.425	103.705	1.00169.71	N
ATOM	25455	C	ILE	N	271	139.039	22.717	100.286	1.00167.91	N
ATOM	25456	O	ILE	N	271	137.975	22.725	100.914	1.00167.12	N
ATOM	25457	N	ILE	N	272	139.151	23.176	99.042	1.00164.84	N
ATOM	25458	CA	ILE	N	272	138.019	23.742	98.312	1.00161.70	N
ATOM	25459	CB	ILE	N	272	138.502	24.785	97.275	1.00161.31	N
ATOM	25460	CG2	ILE	N	272	137.303	25.477	96.628	1.00160.86	N
ATOM	25461	CG1	ILE	N	272	139.410	25.816	97.955	1.00160.36	N
ATOM	25462	CD1	ILE	N	272	140.055	26.797	96.995	1.00159.69	N
ATOM	25463	C	ILE	N	272	137.224	22.658	97.581	1.00159.27	N
ATOM	25464	O	ILE	N	272	137.569	22.272	96.462	1.00159.37	N
ATOM	25465	N	GLY	N	273	136.157	22.178	98.213	1.00155.75	N
ATOM	25466	CA	GLY	N	273	135.338	21.145	97.604	1.00151.69	N
ATOM	25467	C	GLY	N	273	134.634	21.605	96.342	1.00148.34	N
ATOM	25468	O	GLY	N	273	133.474	22.007	96.384	1.00149.18	N
ATOM	25469	N	VAL	N	274	135.332	21.544	95.213	1.00144.20	N
ATOM	25470	CA	VAL	N	274	134.754	21.963	93.943	1.00140.51	N
ATOM	25471	CB	VAL	N	274	135.805	21.931	92.823	1.00140.36	N

ATOM	25472	CG1	VAL	N	274	135.188	22.412	91.519	1.00140.84	N
ATOM	25473	CG2	VAL	N	274	136.990	22.798	93.205	1.00140.56	N
ATOM	25474	C	VAL	N	274	133.586	21.066	93.552	1.00137.84	N
ATOM	25475	O	VAL	N	274	133.764	20.067	92.857	1.00137.99	N
ATOM	25476	N	THR	N	275	132.391	21.438	94.000	1.00134.98	N
ATOM	25477	CA	THR	N	275	131.184	20.672	93.717	1.00131.47	N
ATOM	25478	CB	THR	N	275	130.068	20.997	94.735	1.00129.05	N
ATOM	25479	OG1	THR	N	275	130.514	20.673	96.057	1.00125.93	N
ATOM	25480	CG2	THR	N	275	128.816	20.197	94.429	1.00128.21	N
ATOM	25481	C	THR	N	275	130.647	20.928	92.312	1.00130.65	N
ATOM	25482	O	THR	N	275	130.730	22.043	91.796	1.00129.49	N
ATOM	25483	N	PHE	N	276	130.101	19.877	91.706	1.00130.61	N
ATOM	25484	CA	PHE	N	276	129.520	19.945	90.368	1.00129.66	N
ATOM	25485	CB	PHE	N	276	130.101	18.845	89.476	1.00125.90	N
ATOM	25486	CG	PHE	N	276	131.486	19.127	88.976	1.00123.29	N
ATOM	25487	CD1	PHE	N	276	132.507	19.466	89.856	1.00122.08	N
ATOM	25488	CD2	PHE	N	276	131.775	19.033	87.618	1.00122.77	N
ATOM	25489	CE1	PHE	N	276	133.798	19.707	89.390	1.00122.27	N
ATOM	25490	CE2	PHE	N	276	133.061	19.272	87.142	1.00122.20	N
ATOM	25491	CZ	PHE	N	276	134.075	19.609	88.030	1.00122.12	N
ATOM	25492	C	PHE	N	276	128.005	19.762	90.460	1.00130.53	N
ATOM	25493	O	PHE	N	276	127.516	18.960	91.262	1.00131.98	N
ATOM	25494	N	VAL	N	277	127.267	20.506	89.640	1.00129.00	N
ATOM	25495	CA	VAL	N	277	125.811	20.417	89.627	1.00126.90	N
ATOM	25496	CB	VAL	N	277	125.154	21.799	89.872	1.00128.01	N
ATOM	25497	CG1	VAL	N	277	123.644	21.700	89.710	1.00128.38	N
ATOM	25498	CG2	VAL	N	277	125.491	22.294	91.271	1.00127.82	N
ATOM	25499	C	VAL	N	277	125.349	19.878	88.282	1.00124.88	N
ATOM	25500	O	VAL	N	277	125.779	20.351	87.228	1.00123.66	N
ATOM	25501	N	TYR	N	278	124.472	18.881	88.321	1.00123.41	N
ATOM	25502	CA	TYR	N	278	123.971	18.287	87.095	1.00123.16	N
ATOM	25503	CB	TYR	N	278	123.998	16.764	87.198	1.00121.00	N
ATOM	25504	CG	TYR	N	278	125.395	16.195	87.134	1.00117.56	N
ATOM	25505	CD1	TYR	N	278	126.233	16.217	88.248	1.00115.68	N
ATOM	25506	CE1	TYR	N	278	127.535	15.724	88.177	1.00114.07	N
ATOM	25507	CD2	TYR	N	278	125.891	15.665	85.945	1.00114.61	N
ATOM	25508	CE2	TYR	N	278	127.186	15.173	85.863	1.00113.45	N
ATOM	25509	CZ	TYR	N	278	128.006	15.204	86.979	1.00113.57	N
ATOM	25510	OH	TYR	N	278	129.294	14.719	86.886	1.00112.07	N
ATOM	25511	C	TYR	N	278	122.578	18.756	86.726	1.00123.46	N
ATOM	25512	O	TYR	N	278	121.704	18.883	87.583	1.00124.46	N
ATOM	25513	N	GLN	N	279	122.387	19.007	85.435	1.00123.88	N
ATOM	25514	CA	GLN	N	279	121.113	19.473	84.906	1.00125.17	N
ATOM	25515	CB	GLN	N	279	121.357	20.371	83.694	1.00126.99	N
ATOM	25516	CG	GLN	N	279	120.114	21.035	83.130	1.00128.86	N
ATOM	25517	CD	GLN	N	279	120.375	21.701	81.790	1.00130.66	N
ATOM	25518	OE1	GLN	N	279	119.512	22.389	81.245	1.00131.64	N
ATOM	25519	NE2	GLN	N	279	121.572	21.490	81.249	1.00131.38	N
ATOM	25520	C	GLN	N	279	120.229	18.300	84.499	1.00125.52	N
ATOM	25521	O	GLN	N	279	119.139	18.156	85.090	1.00126.36	N
ATOM	25522	OXT	GLN	N	279	120.638	17.540	83.596	1.00125.83	N
ATOM	25523	C	GLY	O	1	78.373	2.007	35.857	1.00134.14	O
ATOM	25524	O	GLY	O	1	77.768	2.548	34.934	1.00134.01	O
ATOM	25525	N	GLY	O	1	79.098	-0.095	36.999	1.00133.02	O
ATOM	25526	CA	GLY	O	1	78.937	0.609	35.696	1.00133.60	O
ATOM	25527	N	VAL	O	2	78.572	2.594	37.033	1.00135.30	O
ATOM	25528	CA	VAL	O	2	78.081	3.940	37.322	1.00136.54	O
ATOM	25529	CB	VAL	O	2	78.382	4.327	38.795	1.00135.80	O

ATOM	25530	CG1	VAL	O	2	77.687	5.631	39.150	1.00136.50	O
ATOM	25531	CG2	VAL	O	2	77.934	3.210	39.729	1.00133.40	O
ATOM	25532	C	VAL	O	2	78.716	4.977	36.382	1.00138.22	O
ATOM	25533	O	VAL	O	2	79.823	4.774	35.874	1.00139.20	O
ATOM	25534	N	ALA	O	3	78.003	6.076	36.142	1.00139.10	O
ATOM	25535	CA	ALA	O	3	78.491	7.145	35.269	1.00140.57	O
ATOM	25536	CB	ALA	O	3	78.337	6.744	33.814	1.00140.21	O
ATOM	25537	C	ALA	O	3	77.740	8.450	35.531	1.00141.68	O
ATOM	25538	O	ALA	O	3	76.509	8.472	35.567	1.00142.22	O
ATOM	25539	N	LEU	O	4	78.485	9.538	35.708	1.00142.27	O
ATOM	25540	CA	LEU	O	4	77.885	10.840	35.981	1.00142.17	O
ATOM	25541	CB	LEU	O	4	78.931	11.805	36.545	1.00142.40	O
ATOM	25542	CG	LEU	O	4	79.485	11.474	37.936	1.00143.12	O
ATOM	25543	CD1	LEU	O	4	80.490	12.538	38.344	1.00145.00	O
ATOM	25544	CD2	LEU	O	4	78.351	11.404	38.947	1.00141.63	O
ATOM	25545	C	LEU	O	4	77.230	11.462	34.763	1.00141.77	O
ATOM	25546	O	LEU	O	4	77.694	11.300	33.639	1.00140.10	O
ATOM	25547	N	GLY	O	5	76.140	12.181	35.004	1.00142.66	O
ATOM	25548	CA	GLY	O	5	75.423	12.822	33.922	1.00143.93	O
ATOM	25549	C	GLY	O	5	76.205	13.960	33.304	1.00145.16	O
ATOM	25550	O	GLY	O	5	75.876	14.408	32.207	1.00145.86	O
ATOM	25551	N	ALA	O	6	77.241	14.429	33.994	1.00145.60	O
ATOM	25552	CA	ALA	O	6	78.041	15.531	33.473	1.00145.80	O
ATOM	25553	CB	ALA	O	6	77.596	16.838	34.108	1.00145.81	O
ATOM	25554	C	ALA	O	6	79.544	15.363	33.646	1.00145.83	O
ATOM	25555	O	ALA	O	6	80.014	14.661	34.541	1.00145.15	O
ATOM	25556	N	THR	O	7	80.286	16.035	32.771	1.00146.15	O
ATOM	25557	CA	THR	O	7	81.740	16.005	32.778	1.00145.89	O
ATOM	25558	CB	THR	O	7	82.287	16.052	31.339	1.00145.49	O
ATOM	25559	OG1	THR	O	7	81.775	17.211	30.666	1.00144.37	O
ATOM	25560	CG2	THR	O	7	81.863	14.807	30.576	1.00145.34	O
ATOM	25561	C	THR	O	7	82.291	17.196	33.560	1.00146.21	O
ATOM	25562	O	THR	O	7	83.491	17.277	33.828	1.00146.66	O
ATOM	25563	N	ARG	O	8	81.406	18.124	33.912	1.00145.98	O
ATOM	25564	CA	ARG	O	8	81.790	19.313	34.665	1.00145.54	O
ATOM	25565	CB	ARG	O	8	82.512	20.312	33.765	1.00142.89	O
ATOM	25566	CG	ARG	O	8	81.619	20.945	32.718	1.00139.79	O
ATOM	25567	CD	ARG	O	8	81.880	20.395	31.322	1.00139.22	O
ATOM	25568	NE	ARG	O	8	83.140	20.874	30.755	1.00137.52	O
ATOM	25569	CZ	ARG	O	8	84.338	20.371	31.041	1.00138.08	O
ATOM	25570	NH1	ARG	O	8	85.419	20.883	30.473	1.00138.91	O
ATOM	25571	NH2	ARG	O	8	84.456	19.346	31.880	1.00137.38	O
ATOM	25572	C	ARG	O	8	80.547	19.981	35.237	1.00146.76	O
ATOM	25573	O	ARG	O	8	79.437	19.758	34.755	1.00146.12	O
ATOM	25574	N	VAL	O	9	80.742	20.807	36.262	1.00148.93	O
ATOM	25575	CA	VAL	O	9	79.639	21.516	36.908	1.00150.06	O
ATOM	25576	CB	VAL	O	9	79.294	20.888	38.287	1.00148.81	O
ATOM	25577	CG1	VAL	O	9	78.062	21.560	38.874	1.00145.73	O
ATOM	25578	CG2	VAL	O	9	79.072	19.392	38.137	1.00147.33	O
ATOM	25579	C	VAL	O	9	79.981	22.995	37.122	1.00152.31	O
ATOM	25580	O	VAL	O	9	81.093	23.338	37.532	1.00152.53	O
ATOM	25581	N	ILE	O	10	79.018	23.867	36.834	1.00154.48	O
ATOM	25582	CA	ILE	O	10	79.195	25.306	37.009	1.00156.28	O
ATOM	25583	CB	ILE	O	10	78.787	26.085	35.738	1.00153.55	O
ATOM	25584	CG2	ILE	O	10	78.958	27.579	35.964	1.00152.05	O
ATOM	25585	CG1	ILE	O	10	79.639	25.633	34.551	1.00151.61	O
ATOM	25586	CD1	ILE	O	10	81.121	25.911	34.712	1.00150.80	O
ATOM	25587	C	ILE	O	10	78.300	25.743	38.166	1.00159.10	O

ATOM	25588	O	ILE	O	10	77.075	25.657	38.074	1.00159.25	O
ATOM	25589	N	TYR	O	11	78.913	26.201	39.254	1.00161.62	O
ATOM	25590	CA	TYR	O	11	78.151	26.631	40.421	1.00163.89	O
ATOM	25591	CB	TYR	O	11	78.851	26.200	41.712	1.00164.66	O
ATOM	25592	CG	TYR	O	11	77.901	26.108	42.878	1.00165.42	O
ATOM	25593	CD1	TYR	O	11	77.191	24.934	43.123	1.00166.08	O
ATOM	25594	CE1	TYR	O	11	76.257	24.855	44.146	1.00166.31	O
ATOM	25595	CD2	TYR	O	11	77.656	27.211	43.695	1.00165.14	O
ATOM	25596	CE2	TYR	O	11	76.720	27.145	44.724	1.00165.89	O
ATOM	25597	CZ	TYR	O	11	76.023	25.961	44.943	1.00166.03	O
ATOM	25598	OH	TYR	O	11	75.086	25.878	45.948	1.00166.08	O
ATOM	25599	C	TYR	O	11	77.952	28.144	40.449	1.00165.08	O
ATOM	25600	O	TYR	O	11	78.805	28.882	40.942	1.00164.86	O
ATOM	25601	N	PRO	O	12	76.813	28.625	39.926	1.00166.20	O
ATOM	25602	CD	PRO	O	12	75.690	27.884	39.327	1.00167.00	O
ATOM	25603	CA	PRO	O	12	76.549	30.065	39.917	1.00166.64	O
ATOM	25604	CB	PRO	O	12	75.143	30.157	39.327	1.00166.90	O
ATOM	25605	CG	PRO	O	12	75.051	28.934	38.461	1.00167.24	O
ATOM	25606	C	PRO	O	12	76.617	30.625	41.332	1.00167.06	O
ATOM	25607	O	PRO	O	12	75.987	30.093	42.246	1.00167.36	O
ATOM	25608	N	ALA	O	13	77.393	31.688	41.513	1.00167.31	O
ATOM	25609	CA	ALA	O	13	77.526	32.308	42.823	1.00167.21	O
ATOM	25610	CB	ALA	O	13	78.538	33.442	42.768	1.00166.61	O
ATOM	25611	C	ALA	O	13	76.160	32.836	43.241	1.00167.34	O
ATOM	25612	O	ALA	O	13	75.580	33.685	42.564	1.00166.83	O
ATOM	25613	N	GLY	O	14	75.650	32.322	44.354	1.00168.02	O
ATOM	25614	CA	GLY	O	14	74.348	32.743	44.835	1.00168.85	O
ATOM	25615	C	GLY	O	14	73.373	31.582	44.862	1.00169.60	O
ATOM	25616	O	GLY	O	14	72.466	31.543	45.692	1.00170.02	O
ATOM	25617	N	GLN	O	15	73.559	30.634	43.946	1.00169.93	O
ATOM	25618	CA	GLN	O	15	72.696	29.458	43.861	1.00170.36	O
ATOM	25619	CB	GLN	O	15	73.174	28.526	42.744	1.00170.40	O
ATOM	25620	CG	GLN	O	15	72.998	29.087	41.348	1.00171.09	O
ATOM	25621	CD	GLN	O	15	71.555	29.086	40.893	1.00172.03	O
ATOM	25622	OE1	GLN	O	15	70.673	29.604	41.578	1.00172.18	O
ATOM	25623	NE2	GLN	O	15	71.305	28.504	39.725	1.00172.59	O
ATOM	25624	C	GLN	O	15	72.693	28.697	45.179	1.00170.83	O
ATOM	25625	O	GLN	O	15	73.748	28.422	45.751	1.00171.21	O
ATOM	25626	N	LYS	O	16	71.503	28.360	45.660	1.00170.96	O
ATOM	25627	CA	LYS	O	16	71.374	27.628	46.911	1.00170.70	O
ATOM	25628	CB	LYS	O	16	69.903	27.539	47.320	1.00170.57	O
ATOM	25629	CG	LYS	O	16	69.673	26.987	48.717	1.00169.98	O
ATOM	25630	CD	LYS	O	16	68.188	26.758	48.982	1.00170.00	O
ATOM	25631	CE	LYS	O	16	67.358	28.007	48.679	1.00170.04	O
ATOM	25632	NZ	LYS	O	16	67.818	29.200	49.453	1.00170.14	O
ATOM	25633	C	LYS	O	16	71.939	26.226	46.728	1.00170.57	O
ATOM	25634	O	LYS	O	16	72.549	25.667	47.641	1.00170.59	O
ATOM	25635	N	GLN	O	17	71.740	25.670	45.536	1.00169.95	O
ATOM	25636	CA	GLN	O	17	72.217	24.328	45.234	1.00169.72	O
ATOM	25637	CB	GLN	O	17	71.401	23.300	46.023	1.00169.20	O
ATOM	25638	CG	GLN	O	17	69.900	23.396	45.783	1.00167.26	O
ATOM	25639	CD	GLN	O	17	69.158	22.124	46.158	1.00167.09	O
ATOM	25640	OE1	GLN	O	17	69.246	21.645	47.290	1.00166.83	O
ATOM	25641	NE2	GLN	O	17	68.419	21.571	45.202	1.00166.17	O
ATOM	25642	C	GLN	O	17	72.153	23.969	43.750	1.00169.62	O
ATOM	25643	O	GLN	O	17	71.225	24.363	43.044	1.00169.63	O
ATOM	25644	N	VAL	O	18	73.154	23.218	43.294	1.00169.22	O
ATOM	25645	CA	VAL	O	18	73.234	22.746	41.913	1.00168.41	O

ATOM	25646	CB	VAL	O	18	74.562	23.168	41.246	1.00167.31	O
ATOM	25647	CG1	VAL	O	18	74.690	22.518	39.878	1.00166.66	O
ATOM	25648	CG2	VAL	O	18	74.614	24.679	41.112	1.00166.63	O
ATOM	25649	C	VAL	O	18	73.171	21.221	41.992	1.00168.93	O
ATOM	25650	O	VAL	O	18	73.804	20.624	42.862	1.00168.96	O
ATOM	25651	N	GLN	O	19	72.413	20.587	41.102	1.00169.35	O
ATOM	25652	CA	GLN	O	19	72.291	19.132	41.143	1.00169.35	O
ATOM	25653	CB	GLN	O	19	70.846	18.735	41.470	1.00170.56	O
ATOM	25654	CG	GLN	O	19	69.808	19.192	40.460	1.00173.08	O
ATOM	25655	CD	GLN	O	19	68.386	18.903	40.919	1.00174.00	O
ATOM	25656	OE1	GLN	O	19	67.936	19.422	41.943	1.00174.61	O
ATOM	25657	NE2	GLN	O	19	67.673	18.072	40.163	1.00173.07	O
ATOM	25658	C	GLN	O	19	72.758	18.388	39.895	1.00168.82	O
ATOM	25659	O	GLN	O	19	72.464	18.781	38.765	1.00168.28	O
ATOM	25660	N	LEU	O	20	73.488	17.302	40.128	1.00168.71	O
ATOM	25661	CA	LEU	O	20	74.025	16.460	39.065	1.00168.81	O
ATOM	25662	CB	LEU	O	20	75.507	16.173	39.337	1.00168.76	O
ATOM	25663	CG	LEU	O	20	76.337	15.420	38.291	1.00168.30	O
ATOM	25664	CD1	LEU	O	20	76.330	16.186	36.985	1.00167.74	O
ATOM	25665	CD2	LEU	O	20	77.764	15.247	38.793	1.00168.40	O
ATOM	25666	C	LEU	O	20	73.230	15.153	39.016	1.00168.97	O
ATOM	25667	O	LEU	O	20	72.454	14.860	39.927	1.00168.53	O
ATOM	25668	N	ALA	O	21	73.430	14.368	37.959	1.00169.34	O
ATOM	25669	CA	ALA	O	21	72.712	13.106	37.795	1.00169.27	O
ATOM	25670	CB	ALA	O	21	71.948	13.119	36.476	1.00169.84	O
ATOM	25671	C	ALA	O	21	73.615	11.876	37.859	1.00168.76	O
ATOM	25672	O	ALA	O	21	74.661	11.828	37.211	1.00169.03	O
ATOM	25673	N	VAL	O	22	73.192	10.879	38.636	1.00167.83	O
ATOM	25674	CA	VAL	O	22	73.949	9.636	38.793	1.00166.92	O
ATOM	25675	CB	VAL	O	22	74.228	9.328	40.276	1.00166.52	O
ATOM	25676	CG1	VAL	O	22	75.453	8.435	40.395	1.00165.94	O
ATOM	25677	CG2	VAL	O	22	74.414	10.615	41.048	1.00165.83	O
ATOM	25678	C	VAL	O	22	73.153	8.467	38.220	1.00166.54	O
ATOM	25679	O	VAL	O	22	71.997	8.260	38.586	1.00166.78	O
ATOM	25680	N	THR	O	23	73.774	7.693	37.336	1.00165.70	O
ATOM	25681	CA	THR	O	23	73.097	6.558	36.720	1.00164.64	O
ATOM	25682	CB	THR	O	23	72.770	6.860	35.238	1.00163.47	O
ATOM	25683	OG1	THR	O	23	72.313	5.667	34.594	1.00163.62	O
ATOM	25684	CG2	THR	O	23	73.996	7.387	34.510	1.00161.85	O
ATOM	25685	C	THR	O	23	73.891	5.252	36.798	1.00164.69	O
ATOM	25686	O	THR	O	23	74.977	5.140	36.233	1.00165.28	O
ATOM	25687	N	ASN	O	24	73.338	4.265	37.501	1.00164.34	O
ATOM	25688	CA	ASN	O	24	73.988	2.965	37.646	1.00164.10	O
ATOM	25689	CB	ASN	O	24	73.636	2.345	39.003	1.00165.15	O
ATOM	25690	CG	ASN	O	24	74.178	0.933	39.161	1.00166.00	O
ATOM	25691	OD1	ASN	O	24	75.217	0.588	38.598	1.00167.09	O
ATOM	25692	ND2	ASN	O	24	73.485	0.116	39.947	1.00166.30	O
ATOM	25693	C	ASN	O	24	73.578	2.022	36.520	1.00163.44	O
ATOM	25694	O	ASN	O	24	72.433	1.576	36.456	1.00162.71	O
ATOM	25695	N	ASN	O	25	74.526	1.723	35.637	1.00163.74	O
ATOM	25696	CA	ASN	O	25	74.275	0.843	34.502	1.00164.80	O
ATOM	25697	CB	ASN	O	25	75.391	0.982	33.464	1.00162.20	O
ATOM	25698	CG	ASN	O	25	75.175	2.160	32.531	1.00159.82	O
ATOM	25699	OD1	ASN	O	25	75.020	3.301	32.972	1.00158.59	O
ATOM	25700	ND2	ASN	O	25	75.166	1.887	31.233	1.00157.64	O
ATOM	25701	C	ASN	O	25	74.109	-0.623	34.865	1.00166.78	O
ATOM	25702	O	ASN	O	25	73.074	-1.218	34.583	1.00167.57	O
ATOM	25703	N	ASP	O	26	75.133	-1.205	35.477	1.00169.45	O

ATOM	25704	CA	ASP	O	26	75.087	-2.610	35.862	1.00172.71	O
ATOM	25705	CB	ASP	O	26	76.150	-2.894	36.921	1.00175.28	O
ATOM	25706	CG	ASP	O	26	77.561	-2.711	36.387	1.00178.19	O
ATOM	25707	OD1	ASP	O	26	78.525	-2.925	37.158	1.00179.80	O
ATOM	25708	OD2	ASP	O	26	77.701	-2.353	35.194	1.00179.43	O
ATOM	25709	C	ASP	O	26	73.710	-3.008	36.375	1.00174.02	O
ATOM	25710	O	ASP	O	26	73.360	-2.758	37.527	1.00174.06	O
ATOM	25711	N	GLU	O	27	72.938	-3.633	35.494	1.00175.19	O
ATOM	25712	CA	GLU	O	27	71.585	-4.078	35.797	1.00176.36	O
ATOM	25713	CB	GLU	O	27	71.074	-4.964	34.663	1.00176.59	O
ATOM	25714	CG	GLU	O	27	70.929	-4.227	33.345	1.00178.23	O
ATOM	25715	CD	GLU	O	27	70.774	-5.151	32.153	1.00179.41	O
ATOM	25716	OE1	GLU	O	27	69.911	-6.056	32.201	1.00180.17	O
ATOM	25717	OE2	GLU	O	27	71.517	-4.960	31.163	1.00180.00	O
ATOM	25718	C	GLU	O	27	71.460	-4.824	37.115	1.00177.41	O
ATOM	25719	O	GLU	O	27	70.363	-4.948	37.657	1.00178.09	O
ATOM	25720	N	ASN	O	28	72.574	-5.319	37.638	1.00178.28	O
ATOM	25721	CA	ASN	O	28	72.530	-6.054	38.890	1.00179.10	O
ATOM	25722	CB	ASN	O	28	72.192	-7.525	38.598	1.00179.84	O
ATOM	25723	CG	ASN	O	28	72.943	-8.080	37.377	1.00179.66	O
ATOM	25724	OD1	ASN	O	28	72.634	-9.171	36.878	1.00179.46	O
ATOM	25725	ND2	ASN	O	28	73.938	-7.334	36.905	1.00178.79	O
ATOM	25726	C	ASN	O	28	73.806	-5.942	39.718	1.00179.39	O
ATOM	25727	O	ASN	O	28	74.820	-6.569	39.409	1.00179.02	O
ATOM	25728	N	SER	O	29	73.729	-5.139	40.779	1.00179.95	O
ATOM	25729	CA	SER	O	29	74.837	-4.902	41.701	1.00180.44	O
ATOM	25730	CB	SER	O	29	76.174	-4.846	40.952	1.00181.48	O
ATOM	25731	OG	SER	O	29	76.166	-3.835	39.956	1.00182.61	O
ATOM	25732	C	SER	O	29	74.592	-3.574	42.402	1.00180.00	O
ATOM	25733	O	SER	O	29	74.491	-2.534	41.753	1.00180.14	O
ATOM	25734	N	THR	O	30	74.485	-3.613	43.724	1.00179.63	O
ATOM	25735	CA	THR	O	30	74.247	-2.401	44.496	1.00179.88	O
ATOM	25736	CB	THR	O	30	73.604	-2.735	45.853	1.00179.05	O
ATOM	25737	OG1	THR	O	30	72.461	-3.571	45.643	1.00178.45	O
ATOM	25738	CG2	THR	O	30	73.157	-1.466	46.562	1.00178.13	O
ATOM	25739	C	THR	O	30	75.559	-1.655	44.729	1.00181.05	O
ATOM	25740	O	THR	O	30	76.619	-2.274	44.831	1.00181.87	O
ATOM	25741	N	TYR	O	31	75.482	-0.327	44.810	1.00181.40	O
ATOM	25742	CA	TYR	O	31	76.661	0.512	45.024	1.00181.19	O
ATOM	25743	CB	TYR	O	31	77.096	1.156	43.705	1.00180.02	O
ATOM	25744	CG	TYR	O	31	77.745	0.203	42.736	1.00179.65	O
ATOM	25745	CD1	TYR	O	31	77.242	0.041	41.444	1.00179.81	O
ATOM	25746	CE1	TYR	O	31	77.849	-0.830	40.543	1.00180.46	O
ATOM	25747	CD2	TYR	O	31	78.873	-0.530	43.105	1.00179.76	O
ATOM	25748	CE2	TYR	O	31	79.489	-1.401	42.216	1.00180.56	O
ATOM	25749	CZ	TYR	O	31	78.975	-1.548	40.936	1.00180.76	O
ATOM	25750	OH	TYR	O	31	79.595	-2.406	40.053	1.00180.28	O
ATOM	25751	C	TYR	O	31	76.429	1.618	46.054	1.00181.61	O
ATOM	25752	O	TYR	O	31	75.347	2.205	46.121	1.00181.81	O
ATOM	25753	N	LEU	O	32	77.454	1.896	46.853	1.00182.03	O
ATOM	25754	CA	LEU	O	32	77.385	2.947	47.863	1.00182.93	O
ATOM	25755	CB	LEU	O	32	78.138	2.539	49.134	1.00181.74	O
ATOM	25756	CG	LEU	O	32	77.391	1.700	50.169	1.00180.54	O
ATOM	25757	CD1	LEU	O	32	78.332	1.344	51.303	1.00179.10	O
ATOM	25758	CD2	LEU	O	32	76.196	2.480	50.696	1.00180.05	O
ATOM	25759	C	LEU	O	32	77.997	4.223	47.303	1.00184.18	O
ATOM	25760	O	LEU	O	32	79.218	4.395	47.312	1.00184.54	O
ATOM	25761	N	ILE	O	33	77.143	5.115	46.811	1.00185.32	O

ATOM	25762	CA	ILE	O	33	77.602	6.373	46.244	1.00185.97	O
ATOM	25763	CB	ILE	O	33	76.482	7.070	45.440	1.00185.54	O
ATOM	25764	CG2	ILE	O	33	77.024	8.326	44.771	1.00185.19	O
ATOM	25765	CG1	ILE	O	33	75.918	6.110	44.387	1.00185.64	O
ATOM	25766	CD1	ILE	O	33	76.937	5.638	43.368	1.00185.65	O
ATOM	25767	C	ILE	O	33	78.068	7.309	47.350	1.00186.74	O
ATOM	25768	O	ILE	O	33	77.290	7.694	48.222	1.00186.95	O
ATOM	25769	N	GLN	O	34	79.347	7.661	47.315	1.00187.67	O
ATOM	25770	CA	GLN	O	34	79.914	8.553	48.313	1.00188.72	O
ATOM	25771	CB	GLN	O	34	80.943	7.799	49.159	1.00190.36	O
ATOM	25772	CG	GLN	O	34	81.370	8.530	50.419	1.00192.84	O
ATOM	25773	CD	GLN	O	34	82.266	7.687	51.304	1.00193.87	O
ATOM	25774	OE1	GLN	O	34	83.358	7.284	50.900	1.00194.95	O
ATOM	25775	NE2	GLN	O	34	81.807	7.416	52.521	1.00193.95	O
ATOM	25776	C	GLN	O	34	80.569	9.717	47.579	1.00188.50	O
ATOM	25777	O	GLN	O	34	81.575	9.542	46.893	1.00188.62	O
ATOM	25778	N	SER	O	35	79.983	10.903	47.718	1.00188.32	O
ATOM	25779	CA	SER	O	35	80.498	12.094	47.050	1.00188.04	O
ATOM	25780	CB	SER	O	35	79.372	12.776	46.263	1.00187.90	O
ATOM	25781	OG	SER	O	35	78.814	11.899	45.299	1.00186.78	O
ATOM	25782	C	SER	O	35	81.128	13.096	48.015	1.00187.61	O
ATOM	25783	O	SER	O	35	80.971	12.991	49.234	1.00187.71	O
ATOM	25784	N	TRP	O	36	81.846	14.065	47.454	1.00186.54	O
ATOM	25785	CA	TRP	O	36	82.502	15.102	48.242	1.00185.11	O
ATOM	25786	CB	TRP	O	36	83.504	14.475	49.222	1.00186.78	O
ATOM	25787	CG	TRP	O	36	84.763	13.967	48.580	1.00188.24	O
ATOM	25788	CD2	TRP	O	36	85.052	12.615	48.207	1.00188.70	O
ATOM	25789	CE2	TRP	O	36	86.336	12.611	47.613	1.00189.14	O
ATOM	25790	CE3	TRP	O	36	84.353	11.404	48.316	1.00188.44	O
ATOM	25791	CD1	TRP	O	36	85.852	14.707	48.210	1.00188.68	O
ATOM	25792	NE1	TRP	O	36	86.800	13.900	47.628	1.00189.24	O
ATOM	25793	CZ2	TRP	O	36	86.934	11.444	47.126	1.00189.46	O
ATOM	25794	CZ3	TRP	O	36	84.951	10.240	47.830	1.00189.23	O
ATOM	25795	CH2	TRP	O	36	86.229	10.272	47.244	1.00189.32	O
ATOM	25796	C	TRP	O	36	83.211	16.074	47.302	1.00183.26	O
ATOM	25797	O	TRP	O	36	83.550	15.717	46.170	1.00182.48	O
ATOM	25798	N	VAL	O	37	83.431	17.299	47.774	1.00181.63	O
ATOM	25799	CA	VAL	O	37	84.089	18.323	46.968	1.00179.86	O
ATOM	25800	CB	VAL	O	37	83.144	19.511	46.691	1.00179.11	O
ATOM	25801	CG1	VAL	O	37	83.872	20.583	45.892	1.00178.73	O
ATOM	25802	CG2	VAL	O	37	81.924	19.027	45.932	1.00178.71	O
ATOM	25803	C	VAL	O	37	85.375	18.872	47.578	1.00178.85	O
ATOM	25804	O	VAL	O	37	85.364	19.526	48.623	1.00178.39	O
ATOM	25805	N	GLU	O	38	86.484	18.602	46.899	1.00178.01	O
ATOM	25806	CA	GLU	O	38	87.796	19.068	47.322	1.00176.48	O
ATOM	25807	CB	GLU	O	38	88.863	18.048	46.917	1.00176.94	O
ATOM	25808	CG	GLU	O	38	88.712	16.683	47.577	1.00176.33	O
ATOM	25809	CD	GLU	O	38	89.518	15.605	46.875	1.00176.22	O
ATOM	25810	OE1	GLU	O	38	90.704	15.851	46.577	1.00176.86	O
ATOM	25811	OE2	GLU	O	38	88.972	14.510	46.624	1.00175.22	O
ATOM	25812	C	GLU	O	38	88.048	20.394	46.609	1.00175.08	O
ATOM	25813	O	GLU	O	38	87.380	20.708	45.620	1.00174.81	O
ATOM	25814	N	ASN	O	39	89.001	21.175	47.105	1.00173.06	O
ATOM	25815	CA	ASN	O	39	89.304	22.453	46.476	1.00170.50	O
ATOM	25816	CB	ASN	O	39	89.735	23.492	47.518	1.00169.53	O
ATOM	25817	CG	ASN	O	39	90.999	23.098	48.252	1.00168.36	O
ATOM	25818	OD1	ASN	O	39	92.001	22.736	47.636	1.00167.64	O
ATOM	25819	ND2	ASN	O	39	90.964	23.184	49.578	1.00167.90	O

ATOM	25820	C	ASN	O	39	90.392	22.305	45.420	1.00169.00	O
ATOM	25821	O	ASN	O	39	90.776	21.192	45.054	1.00168.60	O
ATOM	25822	N	ALA	O	40	90.882	23.440	44.935	1.00167.67	O
ATOM	25823	CA	ALA	O	40	91.920	23.464	43.916	1.00166.54	O
ATOM	25824	CB	ALA	O	40	92.344	24.903	43.649	1.00165.97	O
ATOM	25825	C	ALA	O	40	93.127	22.622	44.320	1.00166.13	O
ATOM	25826	O	ALA	O	40	93.663	21.868	43.510	1.00165.54	O
ATOM	25827	N	ASP	O	41	93.550	22.755	45.575	1.00166.43	O
ATOM	25828	CA	ASP	O	41	94.695	22.008	46.090	1.00166.69	O
ATOM	25829	CB	ASP	O	41	95.304	22.721	47.304	1.00167.39	O
ATOM	25830	CG	ASP	O	41	95.858	24.094	46.964	1.00168.11	O
ATOM	25831	OD1	ASP	O	41	96.738	24.181	46.080	1.00167.63	O
ATOM	25832	OD2	ASP	O	41	95.418	25.085	47.586	1.00168.78	O
ATOM	25833	C	ASP	O	41	94.295	20.590	46.488	1.00166.49	O
ATOM	25834	O	ASP	O	41	94.947	19.963	47.325	1.00165.88	O
ATOM	25835	N	GLY	O	42	93.215	20.094	45.894	1.00166.58	O
ATOM	25836	CA	GLY	O	42	92.756	18.750	46.197	1.00166.49	O
ATOM	25837	C	GLY	O	42	92.390	18.516	47.650	1.00166.72	O
ATOM	25838	O	GLY	O	42	91.865	17.463	47.998	1.00166.46	O
ATOM	25839	N	VAL	O	43	92.669	19.490	48.507	1.00167.49	O
ATOM	25840	CA	VAL	O	43	92.353	19.362	49.925	1.00168.33	O
ATOM	25841	CB	VAL	O	43	93.125	20.427	50.766	1.00168.05	O
ATOM	25842	CG1	VAL	O	43	93.395	21.663	49.924	1.00167.75	O
ATOM	25843	CG2	VAL	O	43	92.323	20.813	52.011	1.00168.00	O
ATOM	25844	C	VAL	O	43	90.853	19.496	50.187	1.00168.91	O
ATOM	25845	O	VAL	O	43	90.235	20.488	49.808	1.00168.60	O
ATOM	25846	N	LYS	O	44	90.271	18.490	50.834	1.00169.78	O
ATOM	25847	CA	LYS	O	44	88.850	18.525	51.150	1.00170.71	O
ATOM	25848	CB	LYS	O	44	88.373	17.207	51.760	1.00169.76	O
ATOM	25849	CG	LYS	O	44	88.579	15.965	50.919	1.00168.98	O
ATOM	25850	CD	LYS	O	44	89.927	15.330	51.196	1.00168.19	O
ATOM	25851	CE	LYS	O	44	89.979	13.910	50.680	1.00168.42	O
ATOM	25852	NZ	LYS	O	44	88.965	13.049	51.334	1.00168.41	O
ATOM	25853	C	LYS	O	44	88.577	19.633	52.156	1.00171.75	O
ATOM	25854	O	LYS	O	44	89.292	19.778	53.152	1.00171.31	O
ATOM	25855	N	ASP	O	45	87.523	20.395	51.897	1.00173.37	O
ATOM	25856	CA	ASP	O	45	87.132	21.494	52.767	1.00174.94	O
ATOM	25857	CB	ASP	O	45	87.729	22.818	52.280	1.00175.29	O
ATOM	25858	CG	ASP	O	45	87.577	23.025	50.780	1.00175.50	O
ATOM	25859	OD1	ASP	O	45	86.617	22.506	50.183	1.00174.95	O
ATOM	25860	OD2	ASP	O	45	88.409	23.746	50.192	1.00176.12	O
ATOM	25861	C	ASP	O	45	85.621	21.601	52.807	1.00175.88	O
ATOM	25862	O	ASP	O	45	84.927	20.978	52.006	1.00176.26	O
ATOM	25863	N	GLY	O	46	85.109	22.379	53.750	1.00176.59	O
ATOM	25864	CA	GLY	O	46	83.672	22.529	53.860	1.00177.12	O
ATOM	25865	C	GLY	O	46	83.085	23.338	52.717	1.00177.64	O
ATOM	25866	O	GLY	O	46	81.868	23.357	52.539	1.00177.50	O
ATOM	25867	N	ARG	O	47	83.949	24.000	51.945	1.00178.20	O
ATOM	25868	CA	ARG	O	47	83.535	24.830	50.809	1.00178.38	O
ATOM	25869	CB	ARG	O	47	84.692	24.980	49.817	1.00178.45	O
ATOM	25870	CG	ARG	O	47	85.455	26.285	49.970	1.00178.93	O
ATOM	25871	CD	ARG	O	47	86.189	26.362	51.302	1.00179.34	O
ATOM	25872	NE	ARG	O	47	86.580	27.732	51.628	1.00179.84	O
ATOM	25873	CZ	ARG	O	47	85.732	28.676	52.027	1.00180.03	O
ATOM	25874	NH1	ARG	O	47	84.441	28.401	52.159	1.00179.46	O
ATOM	25875	NH2	ARG	O	47	86.172	29.901	52.285	1.00179.69	O
ATOM	25876	C	ARG	O	47	82.283	24.369	50.058	1.00178.28	O
ATOM	25877	O	ARG	O	47	81.342	25.146	49.890	1.00178.40	O

ATOM	25878	N	PHE	O	48	82.274	23.125	49.585	1.00177.70	O
ATOM	25879	CA	PHE	O	48	81.111	22.599	48.870	1.00176.66	O
ATOM	25880	CB	PHE	O	48	81.407	22.448	47.373	1.00176.12	O
ATOM	25881	CG	PHE	O	48	81.426	23.750	46.618	1.00175.20	O
ATOM	25882	CD1	PHE	O	48	82.566	24.547	46.600	1.00174.89	O
ATOM	25883	CD2	PHE	O	48	80.295	24.182	45.927	1.00174.01	O
ATOM	25884	CE1	PHE	O	48	82.579	25.754	45.901	1.00173.88	O
ATOM	25885	CE2	PHE	O	48	80.299	25.385	45.228	1.00172.36	O
ATOM	25886	CZ	PHE	O	48	81.442	26.172	45.215	1.00172.54	O
ATOM	25887	C	PHE	O	48	80.658	21.258	49.440	1.00175.95	O
ATOM	25888	O	PHE	O	48	81.467	20.344	49.614	1.00176.31	O
ATOM	25889	N	ILE	O	49	79.362	21.147	49.722	1.00174.32	O
ATOM	25890	CA	ILE	O	49	78.800	19.923	50.284	1.00172.93	O
ATOM	25891	CB	ILE	O	49	78.164	20.198	51.663	1.00171.64	O
ATOM	25892	CG2	ILE	O	49	77.617	18.902	52.251	1.00171.81	O
ATOM	25893	CG1	ILE	O	49	79.209	20.813	52.600	1.00169.70	O
ATOM	25894	CD1	ILE	O	49	78.677	21.194	53.958	1.00167.18	O
ATOM	25895	C	ILE	O	49	77.745	19.288	49.381	1.00172.32	O
ATOM	25896	O	ILE	O	49	76.705	19.885	49.119	1.00171.97	O
ATOM	25897	N	VAL	O	50	78.024	18.074	48.914	1.00172.16	O
ATOM	25898	CA	VAL	O	50	77.104	17.347	48.044	1.00172.19	O
ATOM	25899	CB	VAL	O	50	77.866	16.381	47.105	1.00171.57	O
ATOM	25900	CG1	VAL	O	50	76.889	15.626	46.218	1.00170.37	O
ATOM	25901	CG2	VAL	O	50	78.856	17.160	46.260	1.00171.65	O
ATOM	25902	C	VAL	O	50	76.123	16.544	48.889	1.00172.82	O
ATOM	25903	O	VAL	O	50	76.423	16.194	50.032	1.00173.29	O
ATOM	25904	N	THR	O	51	74.952	16.256	48.322	1.00173.04	O
ATOM	25905	CA	THR	O	51	73.914	15.501	49.023	1.00173.48	O
ATOM	25906	CB	THR	O	51	72.990	16.448	49.815	1.00173.02	O
ATOM	25907	OG1	THR	O	51	72.477	17.459	48.938	1.00173.20	O
ATOM	25908	CG2	THR	O	51	73.751	17.111	50.954	1.00172.75	O
ATOM	25909	C	THR	O	51	73.051	14.663	48.072	1.00173.77	O
ATOM	25910	O	THR	O	51	72.699	15.114	46.982	1.00173.51	O
ATOM	25911	N	PRO	O	52	72.696	13.430	48.477	1.00174.31	O
ATOM	25912	CD	PRO	O	52	71.719	12.617	47.733	1.00173.80	O
ATOM	25913	CA	PRO	O	52	73.055	12.780	49.746	1.00175.03	O
ATOM	25914	CB	PRO	O	52	72.070	11.612	49.825	1.00174.88	O
ATOM	25915	CG	PRO	O	52	71.847	11.273	48.395	1.00174.45	O
ATOM	25916	C	PRO	O	52	74.520	12.331	49.803	1.00175.25	O
ATOM	25917	O	PRO	O	52	75.082	11.880	48.802	1.00175.44	O
ATOM	25918	N	PRO	O	53	75.153	12.453	50.984	1.00174.97	O
ATOM	25919	CD	PRO	O	53	74.534	12.951	52.227	1.00174.52	O
ATOM	25920	CA	PRO	O	53	76.553	12.079	51.219	1.00174.71	O
ATOM	25921	CB	PRO	O	53	76.832	12.678	52.590	1.00174.98	O
ATOM	25922	CG	PRO	O	53	75.520	12.501	53.285	1.00174.96	O
ATOM	25923	C	PRO	O	53	76.827	10.577	51.182	1.00174.49	O
ATOM	25924	O	PRO	O	53	77.981	10.148	51.105	1.00174.59	O
ATOM	25925	N	LEU	O	54	75.762	9.784	51.250	1.00173.69	O
ATOM	25926	CA	LEU	O	54	75.880	8.332	51.216	1.00172.10	O
ATOM	25927	CB	LEU	O	54	76.473	7.817	52.529	1.00170.03	O
ATOM	25928	CG	LEU	O	54	76.726	6.312	52.615	1.00168.23	O
ATOM	25929	CD1	LEU	O	54	77.622	5.858	51.469	1.00167.09	O
ATOM	25930	CD2	LEU	O	54	77.370	5.999	53.952	1.00167.32	O
ATOM	25931	C	LEU	O	54	74.518	7.692	50.976	1.00171.44	O
ATOM	25932	O	LEU	O	54	73.555	7.971	51.689	1.00171.36	O
ATOM	25933	N	PHE	O	55	74.447	6.836	49.963	1.00170.51	O
ATOM	25934	CA	PHE	O	55	73.208	6.153	49.618	1.00169.52	O
ATOM	25935	CB	PHE	O	55	72.227	7.144	48.987	1.00169.37	O

ATOM	25936	CG	PHE	O	55	72.690	7.715	47.675	1.00169.41	O
ATOM	25937	CD1	PHE	O	55	72.258	7.164	46.472	1.00169.16	O
ATOM	25938	CD2	PHE	O	55	73.544	8.812	47.639	1.00169.55	O
ATOM	25939	CE1	PHE	O	55	72.665	7.701	45.252	1.00169.02	O
ATOM	25940	CE2	PHE	O	55	73.958	9.358	46.425	1.00169.61	O
ATOM	25941	CZ	PHE	O	55	73.517	8.801	45.229	1.00169.11	O
ATOM	25942	C	PHE	O	55	73.518	5.013	48.657	1.00168.97	O
ATOM	25943	O	PHE	O	55	74.651	4.881	48.193	1.00169.71	O
ATOM	25944	N	ALA	O	56	72.519	4.190	48.354	1.00167.64	O
ATOM	25945	CA	ALA	O	56	72.735	3.059	47.459	1.00166.03	O
ATOM	25946	CB	ALA	O	56	72.554	1.760	48.229	1.00165.62	O
ATOM	25947	C	ALA	O	56	71.849	3.050	46.217	1.00165.02	O
ATOM	25948	O	ALA	O	56	70.666	3.377	46.280	1.00164.75	O
ATOM	25949	N	MET	O	57	72.443	2.671	45.088	1.00164.70	O
ATOM	25950	CA	MET	O	57	71.729	2.579	43.818	1.00164.52	O
ATOM	25951	CB	MET	O	57	72.428	3.391	42.728	1.00163.73	O
ATOM	25952	CG	MET	O	57	72.414	4.885	42.949	1.00163.83	O
ATOM	25953	SD	MET	O	57	72.421	5.762	41.370	1.00163.06	O
ATOM	25954	CE	MET	O	57	74.043	5.376	40.776	1.00162.33	O
ATOM	25955	C	MET	O	57	71.679	1.124	43.386	1.00164.69	O
ATOM	25956	O	MET	O	57	72.623	0.615	42.777	1.00164.77	O
ATOM	25957	N	LYS	O	58	70.574	0.458	43.701	1.00164.57	O
ATOM	25958	CA	LYS	O	58	70.407	-0.947	43.356	1.00164.29	O
ATOM	25959	CB	LYS	O	58	69.339	-1.578	44.255	1.00164.93	O
ATOM	25960	CG	LYS	O	58	69.419	-3.091	44.347	1.00165.72	O
ATOM	25961	CD	LYS	O	58	68.302	-3.641	45.214	1.00165.24	O
ATOM	25962	CE	LYS	O	58	68.590	-5.070	45.638	1.00165.65	O
ATOM	25963	NZ	LYS	O	58	69.776	-5.131	46.543	1.00166.58	O
ATOM	25964	C	LYS	O	58	70.020	-1.121	41.887	1.00163.13	O
ATOM	25965	O	LYS	O	58	69.167	-0.395	41.373	1.00162.90	O
ATOM	25966	N	GLY	O	59	70.656	-2.084	41.221	1.00161.56	O
ATOM	25967	CA	GLY	O	59	70.369	-2.350	39.821	1.00159.72	O
ATOM	25968	C	GLY	O	59	70.313	-1.092	38.977	1.00158.61	O
ATOM	25969	O	GLY	O	59	70.851	-0.056	39.367	1.00159.20	O
ATOM	25970	N	LYS	O	60	69.663	-1.175	37.818	1.00157.19	O
ATOM	25971	CA	LYS	O	60	69.552	-0.017	36.938	1.00156.09	O
ATOM	25972	CB	LYS	O	60	69.023	-0.421	35.558	1.00153.35	O
ATOM	25973	CG	LYS	O	60	69.883	-1.420	34.825	1.00149.71	O
ATOM	25974	CD	LYS	O	60	69.620	-1.386	33.329	1.00147.90	O
ATOM	25975	CE	LYS	O	60	70.208	-0.138	32.691	1.00146.94	O
ATOM	25976	NZ	LYS	O	60	70.164	-0.199	31.201	1.00147.16	O
ATOM	25977	C	LYS	O	60	68.626	1.035	37.533	1.00156.65	O
ATOM	25978	O	LYS	O	60	67.403	0.924	37.432	1.00157.00	O
ATOM	25979	N	LYS	O	61	69.212	2.054	38.154	1.00156.59	O
ATOM	25980	CA	LYS	O	61	68.432	3.129	38.751	1.00156.20	O
ATOM	25981	CB	LYS	O	61	68.629	3.163	40.266	1.00156.07	O
ATOM	25982	CG	LYS	O	61	67.322	3.183	41.038	1.00156.29	O
ATOM	25983	CD	LYS	O	61	67.436	4.014	42.299	1.00156.17	O
ATOM	25984	CE	LYS	O	61	68.569	3.539	43.186	1.00155.70	O
ATOM	25985	NZ	LYS	O	61	68.720	4.428	44.368	1.00157.29	O
ATOM	25986	C	LYS	O	61	68.868	4.457	38.153	1.00156.44	O
ATOM	25987	O	LYS	O	61	69.347	4.503	37.019	1.00156.00	O
ATOM	25988	N	GLU	O	62	68.701	5.533	38.917	1.00157.45	O
ATOM	25989	CA	GLU	O	62	69.080	6.866	38.457	1.00158.55	O
ATOM	25990	CB	GLU	O	62	68.418	7.145	37.101	1.00156.98	O
ATOM	25991	CG	GLU	O	62	69.253	7.968	36.132	1.00154.87	O
ATOM	25992	CD	GLU	O	62	69.028	9.459	36.274	1.00154.52	O
ATOM	25993	OE1	GLU	O	62	69.223	9.985	37.390	1.00154.25	O

ATOM	25994	OE2	GLU	O	62	68.661	10.102	35.265	1.00153.75	O
ATOM	25995	C	GLU	O	62	68.648	7.908	39.494	1.00159.46	O
ATOM	25996	O	GLU	O	62	67.475	8.276	39.566	1.00159.43	O
ATOM	25997	N	ASN	O	63	69.601	8.371	40.300	1.00160.23	O
ATOM	25998	CA	ASN	O	63	69.319	9.360	41.337	1.00160.50	O
ATOM	25999	CB	ASN	O	63	69.818	8.859	42.693	1.00159.30	O
ATOM	26000	CG	ASN	O	63	69.273	7.490	43.043	1.00157.77	O
ATOM	26001	OD1	ASN	O	63	69.429	6.532	42.284	1.00155.43	O
ATOM	26002	ND2	ASN	O	63	68.632	7.390	44.200	1.00156.81	O
ATOM	26003	C	ASN	O	63	69.967	10.703	41.027	1.00161.45	O
ATOM	26004	O	ASN	O	63	70.736	10.827	40.075	1.00161.28	O
ATOM	26005	N	THR	O	64	69.654	11.704	41.844	1.00163.05	O
ATOM	26006	CA	THR	O	64	70.193	13.048	41.660	1.00165.10	O
ATOM	26007	CB	THR	O	64	69.056	14.068	41.396	1.00164.96	O
ATOM	26008	OG1	THR	O	64	68.322	13.675	40.231	1.00165.66	O
ATOM	26009	CG2	THR	O	64	69.620	15.463	41.180	1.00163.82	O
ATOM	26010	C	THR	O	64	70.998	13.521	42.874	1.00166.87	O
ATOM	26011	O	THR	O	64	70.551	13.397	44.015	1.00167.59	O
ATOM	26012	N	LEU	O	65	72.188	14.060	42.616	1.00167.91	O
ATOM	26013	CA	LEU	O	65	73.054	14.576	43.675	1.00168.66	O
ATOM	26014	CB	LEU	O	65	74.523	14.288	43.348	1.00168.15	O
ATOM	26015	CG	LEU	O	65	74.950	12.820	43.291	1.00166.83	O
ATOM	26016	CD1	LEU	O	65	76.392	12.723	42.824	1.00165.84	O
ATOM	26017	CD2	LEU	O	65	74.785	12.179	44.661	1.00166.75	O
ATOM	26018	C	LEU	O	65	72.829	16.084	43.783	1.00169.17	O
ATOM	26019	O	LEU	O	65	72.557	16.738	42.779	1.00169.96	O
ATOM	26020	N	ARG	O	66	72.942	16.633	44.989	1.00169.28	O
ATOM	26021	CA	ARG	O	66	72.727	18.063	45.190	1.00169.71	O
ATOM	26022	CB	ARG	O	66	71.471	18.286	46.039	1.00169.06	O
ATOM	26023	CG	ARG	O	66	70.243	17.536	45.535	1.00168.83	O
ATOM	26024	CD	ARG	O	66	68.996	17.858	46.352	1.00168.15	O
ATOM	26025	NE	ARG	O	66	67.863	17.003	45.998	1.00167.40	O
ATOM	26026	CZ	ARG	O	66	67.338	16.913	44.779	1.00166.98	O
ATOM	26027	NH1	ARG	O	66	67.839	17.625	43.777	1.00166.09	O
ATOM	26028	NH2	ARG	O	66	66.306	16.108	44.560	1.00165.95	O
ATOM	26029	C	ARG	O	66	73.918	18.767	45.836	1.00170.72	O
ATOM	26030	O	ARG	O	66	74.225	18.548	47.010	1.00170.37	O
ATOM	26031	N	ILE	O	67	74.579	19.617	45.051	1.00172.12	O
ATOM	26032	CA	ILE	O	67	75.741	20.382	45.505	1.00173.41	O
ATOM	26033	CB	ILE	O	67	76.618	20.852	44.310	1.00173.44	O
ATOM	26034	CG2	ILE	O	67	77.719	21.778	44.800	1.00174.11	O
ATOM	26035	CG1	ILE	O	67	77.246	19.652	43.596	1.00173.75	O
ATOM	26036	CD1	ILE	O	67	76.269	18.822	42.793	1.00174.57	O
ATOM	26037	C	ILE	O	67	75.298	21.622	46.281	1.00173.89	O
ATOM	26038	O	ILE	O	67	74.724	22.547	45.709	1.00173.99	O
ATOM	26039	N	LEU	O	68	75.581	21.646	47.579	1.00174.32	O
ATOM	26040	CA	LEU	O	68	75.194	22.773	48.419	1.00174.13	O
ATOM	26041	CB	LEU	O	68	74.674	22.264	49.761	1.00174.80	O
ATOM	26042	CG	LEU	O	68	73.711	21.078	49.695	1.00175.44	O
ATOM	26043	CD1	LEU	O	68	73.331	20.665	51.103	1.00175.24	O
ATOM	26044	CD2	LEU	O	68	72.476	21.447	48.889	1.00176.07	O
ATOM	26045	C	LEU	O	68	76.358	23.722	48.657	1.00174.01	O
ATOM	26046	O	LEU	O	68	77.477	23.290	48.930	1.00173.51	O
ATOM	26047	N	ASP	O	69	76.081	25.018	48.565	1.00174.65	O
ATOM	26048	CA	ASP	O	69	77.099	26.043	48.761	1.00175.72	O
ATOM	26049	CB	ASP	O	69	76.701	27.320	48.006	1.00175.61	O
ATOM	26050	CG	ASP	O	69	77.829	28.339	47.931	1.00175.58	O
ATOM	26051	OD1	ASP	O	69	77.722	29.299	47.134	1.00175.42	O

ATOM	26052	OD2	ASP	O	69	78.818	28.179	48.670	1.00174.77	O
ATOM	26053	C	ASP	O	69	77.298	26.347	50.247	1.00176.34	O
ATOM	26054	O	ASP	O	69	76.494	27.049	50.861	1.00175.96	O
ATOM	26055	N	ALA	O	70	78.373	25.806	50.818	1.00177.08	O
ATOM	26056	CA	ALA	O	70	78.694	26.014	52.227	1.00177.24	O
ATOM	26057	CB	ALA	O	70	79.385	24.776	52.799	1.00177.57	O
ATOM	26058	C	ALA	O	70	79.590	27.240	52.385	1.00177.61	O
ATOM	26059	O	ALA	O	70	79.503	27.955	53.384	1.00177.50	O
ATOM	26060	N	THR	O	71	80.456	27.474	51.402	1.00178.01	O
ATOM	26061	CA	THR	O	71	81.344	28.632	51.437	1.00178.21	O
ATOM	26062	CB	THR	O	71	82.318	28.648	50.225	1.00179.26	O
ATOM	26063	OG1	THR	O	71	83.017	29.899	50.189	1.00179.87	O
ATOM	26064	CG2	THR	O	71	81.568	28.451	48.917	1.00179.57	O
ATOM	26065	C	THR	O	71	80.475	29.885	51.410	1.00177.47	O
ATOM	26066	O	THR	O	71	79.855	30.201	50.394	1.00177.65	O
ATOM	26067	N	ASN	O	72	80.424	30.587	52.539	1.00176.19	O
ATOM	26068	CA	ASN	O	72	79.620	31.800	52.662	1.00174.94	O
ATOM	26069	CB	ASN	O	72	79.539	32.223	54.133	1.00175.49	O
ATOM	26070	CG	ASN	O	72	78.555	31.382	54.931	1.00175.87	O
ATOM	26071	OD1	ASN	O	72	78.466	31.505	56.152	1.00176.08	O
ATOM	26072	ND2	ASN	O	72	77.804	30.529	54.241	1.00175.44	O
ATOM	26073	C	ASN	O	72	80.124	32.971	51.817	1.00173.63	O
ATOM	26074	O	ASN	O	72	80.375	34.060	52.337	1.00173.44	O
ATOM	26075	N	ASN	O	73	80.259	32.746	50.512	1.00172.02	O
ATOM	26076	CA	ASN	O	73	80.725	33.784	49.596	1.00169.58	O
ATOM	26077	CB	ASN	O	73	79.760	34.974	49.631	1.00167.40	O
ATOM	26078	CG	ASN	O	73	78.314	34.560	49.421	1.00165.41	O
ATOM	26079	OD1	ASN	O	73	77.745	33.813	50.218	1.00163.71	O
ATOM	26080	ND2	ASN	O	73	77.713	35.044	48.343	1.00164.20	O
ATOM	26081	C	ASN	O	73	82.125	34.236	50.002	1.00168.85	O
ATOM	26082	O	ASN	O	73	82.483	35.403	49.862	1.00169.03	O
ATOM	26083	N	GLN	O	74	82.913	33.294	50.506	1.00168.09	O
ATOM	26084	CA	GLN	O	74	84.268	33.574	50.965	1.00166.73	O
ATOM	26085	CB	GLN	O	74	84.597	32.649	52.146	1.00167.82	O
ATOM	26086	CG	GLN	O	74	83.653	32.846	53.343	1.00168.82	O
ATOM	26087	CD	GLN	O	74	83.635	31.673	54.320	1.00168.62	O
ATOM	26088	OE1	GLN	O	74	82.938	31.711	55.338	1.00167.53	O
ATOM	26089	NE2	GLN	O	74	84.391	30.626	54.011	1.00168.59	O
ATOM	26090	C	GLN	O	74	85.290	33.405	49.846	1.00164.80	O
ATOM	26091	O	GLN	O	74	86.498	33.500	50.071	1.00164.61	O
ATOM	26092	N	LEU	O	75	84.794	33.172	48.635	1.00162.63	O
ATOM	26093	CA	LEU	O	75	85.652	32.980	47.472	1.00160.70	O
ATOM	26094	CB	LEU	O	75	85.139	31.801	46.645	1.00160.32	O
ATOM	26095	CG	LEU	O	75	85.217	30.431	47.316	1.00159.96	O
ATOM	26096	CD1	LEU	O	75	84.417	29.430	46.509	1.00159.91	O
ATOM	26097	CD2	LEU	O	75	86.669	30.000	47.438	1.00158.87	O
ATOM	26098	C	LEU	O	75	85.728	34.226	46.597	1.00159.20	O
ATOM	26099	O	LEU	O	75	84.860	35.096	46.666	1.00158.19	O
ATOM	26100	N	PRO	O	76	86.779	34.328	45.764	1.00158.46	O
ATOM	26101	CD	PRO	O	76	87.887	33.366	45.630	1.00157.78	O
ATOM	26102	CA	PRO	O	76	86.974	35.471	44.866	1.00157.72	O
ATOM	26103	CB	PRO	O	76	88.165	35.040	44.018	1.00157.28	O
ATOM	26104	CG	PRO	O	76	88.954	34.205	44.969	1.00157.65	O
ATOM	26105	C	PRO	O	76	85.727	35.713	44.026	1.00157.39	O
ATOM	26106	O	PRO	O	76	85.136	34.769	43.498	1.00157.78	O
ATOM	26107	N	GLN	O	77	85.331	36.975	43.901	1.00156.61	O
ATOM	26108	CA	GLN	O	77	84.145	37.323	43.131	1.00156.21	O
ATOM	26109	CB	GLN	O	77	83.203	38.168	43.993	1.00154.79	O

ATOM	26110	CG	GLN	O	77	82.873	37.532	45.342	1.00152.58	O
ATOM	26111	CD	GLN	O	77	82.196	36.177	45.212	1.00151.18	O
ATOM	26112	OE1	GLN	O	77	82.067	35.437	46.189	1.00150.01	O
ATOM	26113	NE2	GLN	O	77	81.751	35.851	44.005	1.00150.84	O
ATOM	26114	C	GLN	O	77	84.493	38.063	41.840	1.00157.07	O
ATOM	26115	O	GLN	O	77	83.675	38.812	41.299	1.00156.76	O
ATOM	26116	N	ASP	O	78	85.708	37.835	41.346	1.00158.31	O
ATOM	26117	CA	ASP	O	78	86.181	38.463	40.114	1.00158.64	O
ATOM	26118	CB	ASP	O	78	87.358	39.402	40.409	1.00158.57	O
ATOM	26119	CG	ASP	O	78	88.604	38.660	40.873	1.00158.69	O
ATOM	26120	OD1	ASP	O	78	89.662	39.311	41.003	1.00158.55	O
ATOM	26121	OD2	ASP	O	78	88.532	37.433	41.107	1.00158.24	O
ATOM	26122	C	ASP	O	78	86.616	37.424	39.076	1.00158.64	O
ATOM	26123	O	ASP	O	78	87.044	37.777	37.977	1.00158.14	O
ATOM	26124	N	ARG	O	79	86.503	36.147	39.434	1.00158.59	O
ATOM	26125	CA	ARG	O	79	86.886	35.046	38.550	1.00157.22	O
ATOM	26126	CB	ARG	O	79	88.406	34.912	38.508	1.00157.48	O
ATOM	26127	CG	ARG	O	79	89.004	34.400	39.812	1.00158.19	O
ATOM	26128	CD	ARG	O	79	90.505	34.614	39.862	1.00158.54	O
ATOM	26129	NE	ARG	O	79	90.828	36.034	39.939	1.00159.10	O
ATOM	26130	CZ	ARG	O	79	92.066	36.518	39.964	1.00159.02	O
ATOM	26131	NH1	ARG	O	79	93.107	35.695	39.918	1.00158.14	O
ATOM	26132	NH2	ARG	O	79	92.265	37.828	40.034	1.00159.63	O
ATOM	26133	C	ARG	O	79	86.295	33.749	39.090	1.00155.90	O
ATOM	26134	O	ARG	O	79	85.600	33.755	40.106	1.00155.91	O
ATOM	26135	N	GLU	O	80	86.583	32.636	38.423	1.00154.17	O
ATOM	26136	CA	GLU	O	80	86.072	31.350	38.881	1.00152.29	O
ATOM	26137	CB	GLU	O	80	85.810	30.401	37.714	1.00148.95	O
ATOM	26138	CG	GLU	O	80	85.308	31.031	36.448	1.00144.19	O
ATOM	26139	CD	GLU	O	80	84.898	29.979	35.447	1.00142.11	O
ATOM	26140	OE1	GLU	O	80	83.763	29.480	35.552	1.00142.39	O
ATOM	26141	OE2	GLU	O	80	85.714	29.631	34.571	1.00140.06	O
ATOM	26142	C	GLU	O	80	87.084	30.679	39.799	1.00152.28	O
ATOM	26143	O	GLU	O	80	88.290	30.745	39.557	1.00151.44	O
ATOM	26144	N	SER	O	81	86.586	30.036	40.851	1.00153.02	O
ATOM	26145	CA	SER	O	81	87.441	29.315	41.787	1.00153.63	O
ATOM	26146	CB	SER	O	81	87.011	29.573	43.235	1.00154.15	O
ATOM	26147	OG	SER	O	81	87.294	30.905	43.636	1.00155.03	O
ATOM	26148	C	SER	O	81	87.274	27.840	41.447	1.00153.75	O
ATOM	26149	O	SER	O	81	86.182	27.288	41.567	1.00153.52	O
ATOM	26150	N	LEU	O	82	88.358	27.209	41.009	1.00154.33	O
ATOM	26151	CA	LEU	O	82	88.317	25.805	40.630	1.00154.77	O
ATOM	26152	CB	LEU	O	82	89.507	25.471	39.720	1.00152.88	O
ATOM	26153	CG	LEU	O	82	89.684	24.040	39.196	1.00150.94	O
ATOM	26154	CD1	LEU	O	82	88.418	23.557	38.511	1.00150.07	O
ATOM	26155	CD2	LEU	O	82	90.855	24.009	38.224	1.00150.04	O
ATOM	26156	C	LEU	O	82	88.299	24.859	41.821	1.00156.55	O
ATOM	26157	O	LEU	O	82	89.102	24.982	42.748	1.00156.58	O
ATOM	26158	N	PHE	O	83	87.350	23.927	41.777	1.00158.54	O
ATOM	26159	CA	PHE	O	83	87.175	22.893	42.794	1.00159.99	O
ATOM	26160	CB	PHE	O	83	85.896	23.114	43.608	1.00159.63	O
ATOM	26161	CG	PHE	O	83	85.973	24.265	44.562	1.00161.01	O
ATOM	26162	CD1	PHE	O	83	86.009	25.573	44.094	1.00161.02	O
ATOM	26163	CD2	PHE	O	83	86.026	24.040	45.935	1.00162.39	O
ATOM	26164	CE1	PHE	O	83	86.100	26.645	44.976	1.00161.40	O
ATOM	26165	CE2	PHE	O	83	86.117	25.104	46.827	1.00162.76	O
ATOM	26166	CZ	PHE	O	83	86.155	26.411	46.346	1.00162.16	O
ATOM	26167	C	PHE	O	83	87.053	21.585	42.024	1.00161.15	O

ATOM	26168	O	PHE	O	83	87.185	21.568	40.799	1.00161.46	O
ATOM	26169	N	TRP	O	84	86.802	20.491	42.733	1.00161.92	O
ATOM	26170	CA	TRP	O	84	86.655	19.205	42.072	1.00162.41	O
ATOM	26171	CB	TRP	O	84	87.985	18.447	42.056	1.00161.01	O
ATOM	26172	CG	TRP	O	84	89.023	19.077	41.182	1.00158.69	O
ATOM	26173	CD2	TRP	O	84	89.268	18.793	39.799	1.00157.88	O
ATOM	26174	CE2	TRP	O	84	90.323	19.634	39.379	1.00157.46	O
ATOM	26175	CE3	TRP	O	84	88.700	17.908	38.872	1.00157.37	O
ATOM	26176	CD1	TRP	O	84	89.910	20.051	41.535	1.00158.27	O
ATOM	26177	NE1	TRP	O	84	90.697	20.393	40.457	1.00157.52	O
ATOM	26178	CZ2	TRP	O	84	90.820	19.617	38.071	1.00156.51	O
ATOM	26179	CZ3	TRP	O	84	89.196	17.892	37.568	1.00156.14	O
ATOM	26180	CH2	TRP	O	84	90.245	18.741	37.184	1.00155.72	O
ATOM	26181	C	TRP	O	84	85.577	18.338	42.699	1.00163.31	O
ATOM	26182	O	TRP	O	84	85.530	18.153	43.915	1.00162.30	O
ATOM	26183	N	MET	O	85	84.708	17.811	41.845	1.00165.09	O
ATOM	26184	CA	MET	O	85	83.617	16.956	42.278	1.00166.44	O
ATOM	26185	CB	MET	O	85	82.366	17.267	41.457	1.00166.85	O
ATOM	26186	CG	MET	O	85	81.241	16.273	41.665	1.00168.16	O
ATOM	26187	SD	MET	O	85	80.654	16.226	43.374	1.00169.04	O
ATOM	26188	CE	MET	O	85	78.878	16.131	43.105	1.00168.13	O
ATOM	26189	C	MET	O	85	83.985	15.483	42.123	1.00166.78	O
ATOM	26190	O	MET	O	85	84.351	15.036	41.033	1.00166.57	O
ATOM	26191	N	ASN	O	86	83.884	14.732	43.217	1.00167.07	O
ATOM	26192	CA	ASN	O	86	84.199	13.309	43.189	1.00168.08	O
ATOM	26193	CB	ASN	O	86	85.422	13.011	44.059	1.00167.69	O
ATOM	26194	CG	ASN	O	86	86.671	13.710	43.563	1.00167.21	O
ATOM	26195	OD1	ASN	O	86	86.799	14.929	43.677	1.00166.52	O
ATOM	26196	ND2	ASN	O	86	87.597	12.941	43.002	1.00165.80	O
ATOM	26197	C	ASN	O	86	83.030	12.451	43.652	1.00169.02	O
ATOM	26198	O	ASN	O	86	82.409	12.727	44.678	1.00168.40	O
ATOM	26199	N	VAL	O	87	82.743	11.408	42.879	1.00170.67	O
ATOM	26200	CA	VAL	O	87	81.662	10.476	43.180	1.00172.17	O
ATOM	26201	CB	VAL	O	87	80.554	10.536	42.102	1.00173.30	O
ATOM	26202	CG1	VAL	O	87	79.457	9.527	42.418	1.00173.82	O
ATOM	26203	CG2	VAL	O	87	79.975	11.944	42.031	1.00173.48	O
ATOM	26204	C	VAL	O	87	82.245	9.067	43.226	1.00172.29	O
ATOM	26205	O	VAL	O	87	82.665	8.522	42.204	1.00171.65	O
ATOM	26206	N	LYS	O	88	82.269	8.487	44.422	1.00172.92	O
ATOM	26207	CA	LYS	O	88	82.821	7.153	44.625	1.00173.76	O
ATOM	26208	CB	LYS	O	88	83.559	7.097	45.965	1.00173.54	O
ATOM	26209	CG	LYS	O	88	84.130	5.733	46.306	1.00173.45	O
ATOM	26210	CD	LYS	O	88	84.752	5.738	47.688	1.00173.20	O
ATOM	26211	CE	LYS	O	88	85.292	4.367	48.054	1.00172.88	O
ATOM	26212	NZ	LYS	O	88	85.727	4.323	49.477	1.00172.76	O
ATOM	26213	C	LYS	O	88	81.782	6.041	44.580	1.00174.19	O
ATOM	26214	O	LYS	O	88	80.776	6.087	45.287	1.00173.99	O
ATOM	26215	N	ALA	O	89	82.043	5.036	43.749	1.00175.22	O
ATOM	26216	CA	ALA	O	89	81.149	3.892	43.608	1.00176.39	O
ATOM	26217	CB	ALA	O	89	81.027	3.504	42.139	1.00176.34	O
ATOM	26218	C	ALA	O	89	81.681	2.714	44.421	1.00177.02	O
ATOM	26219	O	ALA	O	89	82.639	2.051	44.020	1.00176.35	O
ATOM	26220	N	ILE	O	90	81.052	2.458	45.564	1.00178.58	O
ATOM	26221	CA	ILE	O	90	81.462	1.368	46.443	1.00180.23	O
ATOM	26222	CB	ILE	O	90	81.339	1.776	47.931	1.00179.72	O
ATOM	26223	CG2	ILE	O	90	81.905	0.678	48.817	1.00178.71	O
ATOM	26224	CG1	ILE	O	90	82.070	3.100	48.179	1.00179.58	O
ATOM	26225	CD1	ILE	O	90	81.915	3.645	49.592	1.00178.49	O

ATOM	26226	C	ILE	O	90	80.617	0.111	46.228	1.00181.83	O
ATOM	26227	O	ILE	O	90	79.398	0.129	46.409	1.00182.02	O
ATOM	26228	N	PRO	O	91	81.257	-1.001	45.835	1.00183.07	O
ATOM	26229	CD	PRO	O	91	82.675	-1.148	45.461	1.00183.25	O
ATOM	26230	CA	PRO	O	91	80.529	-2.252	45.609	1.00184.09	O
ATOM	26231	CB	PRO	O	91	81.529	-3.085	44.818	1.00183.35	O
ATOM	26232	CG	PRO	O	91	82.831	-2.649	45.386	1.00183.10	O
ATOM	26233	C	PRO	O	91	80.126	-2.914	46.924	1.00185.47	O
ATOM	26234	O	PRO	O	91	79.866	-2.232	47.915	1.00185.94	O
ATOM	26235	N	SER	O	92	80.081	-4.243	46.930	1.00186.72	O
ATOM	26236	CA	SER	O	92	79.702	-4.988	48.127	1.00187.69	O
ATOM	26237	CB	SER	O	92	78.345	-5.658	47.913	1.00187.18	O
ATOM	26238	OG	SER	O	92	77.577	-4.945	46.955	1.00186.67	O
ATOM	26239	C	SER	O	92	80.744	-6.057	48.441	1.00188.56	O
ATOM	26240	O	SER	O	92	81.398	-6.577	47.540	1.00187.96	O
ATOM	26241	N	MET	O	93	80.893	-6.388	49.719	1.00190.08	O
ATOM	26242	CA	MET	O	93	81.854	-7.403	50.130	1.00192.01	O
ATOM	26243	CB	MET	O	93	82.106	-7.300	51.640	1.00192.70	O
ATOM	26244	CG	MET	O	93	83.470	-7.810	52.113	1.00193.96	O
ATOM	26245	SD	MET	O	93	83.702	-9.607	52.006	1.00195.56	O
ATOM	26246	CE	MET	O	93	83.521	-10.080	53.736	1.00196.31	O
ATOM	26247	C	MET	O	93	81.272	-8.771	49.777	1.00193.39	O
ATOM	26248	O	MET	O	93	80.144	-9.088	50.161	1.00193.15	O
ATOM	26249	N	ASP	O	94	82.037	-9.571	49.037	1.00194.82	O
ATOM	26250	CA	ASP	O	94	81.591	-10.903	48.628	1.00195.67	O
ATOM	26251	CB	ASP	O	94	82.390	-11.409	47.417	1.00194.76	O
ATOM	26252	CG	ASP	O	94	82.193	-10.557	46.178	1.00194.22	O
ATOM	26253	OD1	ASP	O	94	82.542	-11.032	45.071	1.00193.47	O
ATOM	26254	OD2	ASP	O	94	81.700	-9.413	46.310	1.00193.94	O
ATOM	26255	C	ASP	O	94	81.732	-11.921	49.754	1.00196.59	O
ATOM	26256	O	ASP	O	94	82.847	-12.283	50.138	1.00197.12	O
ATOM	26257	N	LYS	O	95	80.602	-12.385	50.279	1.00196.99	O
ATOM	26258	CA	LYS	O	95	80.620	-13.381	51.342	1.00196.98	O
ATOM	26259	CB	LYS	O	95	79.265	-13.433	52.058	1.00195.93	O
ATOM	26260	CG	LYS	O	95	78.913	-12.166	52.833	1.00194.00	O
ATOM	26261	CD	LYS	O	95	78.485	-11.028	51.921	1.00191.88	O
ATOM	26262	CE	LYS	O	95	77.165	-11.334	51.232	1.00190.43	O
ATOM	26263	NZ	LYS	O	95	76.717	-10.197	50.387	1.00188.67	O
ATOM	26264	C	LYS	O	95	80.927	-14.738	50.708	1.00197.52	O
ATOM	26265	O	LYS	O	95	80.995	-15.761	51.400	1.00197.76	O
ATOM	26266	N	SER	O	96	81.122	-14.727	49.388	1.00197.54	O
ATOM	26267	CA	SER	O	96	81.423	-15.934	48.615	1.00196.83	O
ATOM	26268	CB	SER	O	96	80.645	-15.925	47.296	1.00196.10	O
ATOM	26269	OG	SER	O	96	81.083	-14.870	46.444	1.00194.38	O
ATOM	26270	C	SER	O	96	82.918	-16.055	48.311	1.00196.50	O
ATOM	26271	O	SER	O	96	83.394	-17.114	47.901	1.00196.43	O
ATOM	26272	N	LYS	O	97	83.651	-14.966	48.519	1.00195.86	O
ATOM	26273	CA	LYS	O	97	85.086	-14.945	48.277	1.00194.86	O
ATOM	26274	CB	LYS	O	97	85.417	-13.916	47.190	1.00193.50	O
ATOM	26275	CG	LYS	O	97	84.462	-13.916	45.999	1.00190.73	O
ATOM	26276	CD	LYS	O	97	84.401	-15.275	45.327	1.00188.36	O
ATOM	26277	CE	LYS	O	97	83.363	-15.279	44.222	1.00186.55	O
ATOM	26278	NZ	LYS	O	97	83.224	-16.617	43.590	1.00185.25	O
ATOM	26279	C	LYS	O	97	85.802	-14.594	49.580	1.00194.88	O
ATOM	26280	O	LYS	O	97	87.007	-14.338	49.594	1.00194.79	O
ATOM	26281	N	LEU	O	98	85.038	-14.584	50.670	1.00194.95	O
ATOM	26282	CA	LEU	O	98	85.558	-14.270	51.998	1.00195.25	O
ATOM	26283	CB	LEU	O	98	84.444	-14.475	53.044	1.00194.52	O

ATOM	26284	CG	LEU	O	98	84.715	-14.337	54.551	1.00193.75	O
ATOM	26285	CD1	LEU	O	98	85.466	-15.555	55.050	1.00192.92	O
ATOM	26286	CD2	LEU	O	98	85.480	-13.055	54.842	1.00193.65	O
ATOM	26287	C	LEU	O	98	86.796	-15.080	52.365	1.00195.44	O
ATOM	26288	O	LEU	O	98	87.715	-14.569	53.001	1.00195.23	O
ATOM	26289	N	THR	O	99	86.817	-16.346	51.966	1.00195.77	O
ATOM	26290	CA	THR	O	99	87.950	-17.219	52.275	1.00196.05	O
ATOM	26291	CB	THR	O	99	87.495	-18.675	52.539	1.00196.49	O
ATOM	26292	OG1	THR	O	99	87.209	-19.317	51.289	1.00196.89	O
ATOM	26293	CG2	THR	O	99	86.230	-18.692	53.372	1.00196.75	O
ATOM	26294	C	THR	O	99	88.945	-17.258	51.118	1.00195.80	O
ATOM	26295	O	THR	O	99	89.537	-18.298	50.834	1.00195.24	O
ATOM	26296	N	GLU	O	100	89.144	-16.122	50.459	1.00196.03	O
ATOM	26297	CA	GLU	O	100	90.065	-16.064	49.331	1.00196.28	O
ATOM	26298	CB	GLU	O	100	89.294	-16.352	48.040	1.00195.98	O
ATOM	26299	CG	GLU	O	100	88.538	-17.667	48.040	1.00195.14	O
ATOM	26300	CD	GLU	O	100	87.470	-17.703	46.971	1.00194.53	O
ATOM	26301	OE1	GLU	O	100	87.813	-17.515	45.786	1.00194.23	O
ATOM	26302	OE2	GLU	O	100	86.290	-17.920	47.315	1.00194.09	O
ATOM	26303	C	GLU	O	100	90.838	-14.750	49.186	1.00196.60	O
ATOM	26304	O	GLU	O	100	90.636	-13.800	49.943	1.00196.55	O
ATOM	26305	N	ASN	O	101	91.715	-14.730	48.183	1.00196.78	O
ATOM	26306	CA	ASN	O	101	92.557	-13.583	47.859	1.00196.57	O
ATOM	26307	CB	ASN	O	101	93.954	-14.060	47.453	1.00197.91	O
ATOM	26308	CG	ASN	O	101	94.691	-14.744	48.592	1.00199.75	O
ATOM	26309	OD1	ASN	O	101	94.086	-15.461	49.391	1.00200.00	O
ATOM	26310	ND2	ASN	O	101	96.005	-14.542	48.660	1.00200.00	O
ATOM	26311	C	ASN	O	101	91.938	-12.793	46.712	1.00195.76	O
ATOM	26312	O	ASN	O	101	92.201	-13.074	45.538	1.00195.20	O
ATOM	26313	N	THR	O	102	91.119	-11.801	47.049	1.00195.12	O
ATOM	26314	CA	THR	O	102	90.459	-11.002	46.026	1.00193.82	O
ATOM	26315	CB	THR	O	102	88.928	-11.029	46.219	1.00193.24	O
ATOM	26316	OG1	THR	O	102	88.580	-10.332	47.422	1.00191.81	O
ATOM	26317	CG2	THR	O	102	88.437	-12.461	46.321	1.00193.33	O
ATOM	26318	C	THR	O	102	90.918	-9.550	45.969	1.00192.91	O
ATOM	26319	O	THR	O	102	91.602	-9.055	46.866	1.00193.42	O
ATOM	26320	N	LEU	O	103	90.525	-8.882	44.889	1.00191.17	O
ATOM	26321	CA	LEU	O	103	90.855	-7.481	44.649	1.00189.53	O
ATOM	26322	CB	LEU	O	103	91.931	-7.365	43.569	1.00189.08	O
ATOM	26323	CG	LEU	O	103	92.197	-5.940	43.074	1.00188.43	O
ATOM	26324	CD1	LEU	O	103	92.829	-5.109	44.182	1.00187.67	O
ATOM	26325	CD2	LEU	O	103	93.107	-5.991	41.865	1.00187.63	O
ATOM	26326	C	LEU	O	103	89.621	-6.712	44.192	1.00188.53	O
ATOM	26327	O	LEU	O	103	89.115	-6.946	43.093	1.00188.62	O
ATOM	26328	N	GLN	O	104	89.145	-5.794	45.031	1.00186.89	O
ATOM	26329	CA	GLN	O	104	87.975	-4.987	44.691	1.00184.50	O
ATOM	26330	CB	GLN	O	104	86.931	-5.036	45.815	1.00184.46	O
ATOM	26331	CG	GLN	O	104	85.912	-6.166	45.677	1.00183.50	O
ATOM	26332	CD	GLN	O	104	84.712	-5.985	46.591	1.00183.04	O
ATOM	26333	OE1	GLN	O	104	83.758	-6.762	46.543	1.00182.06	O
ATOM	26334	NE2	GLN	O	104	84.755	-4.955	47.428	1.00182.64	O
ATOM	26335	C	GLN	O	104	88.327	-3.533	44.379	1.00182.04	O
ATOM	26336	O	GLN	O	104	89.118	-2.901	45.080	1.00181.45	O
ATOM	26337	N	LEU	O	105	87.720	-3.008	43.320	1.00179.21	O
ATOM	26338	CA	LEU	O	105	87.964	-1.640	42.896	1.00176.65	O
ATOM	26339	CB	LEU	O	105	88.345	-1.622	41.416	1.00176.20	O
ATOM	26340	CG	LEU	O	105	89.388	-2.655	40.987	1.00176.02	O
ATOM	26341	CD1	LEU	O	105	89.660	-2.502	39.500	1.00176.21	O

ATOM	26342	CD2	LEU	O	105	90.668	-2.472	41.787	1.00177.08	O
ATOM	26343	C	LEU	O	105	86.744	-0.753	43.116	1.00175.17	O
ATOM	26344	O	LEU	O	105	85.605	-1.187	42.939	1.00175.21	O
ATOM	26345	N	ALA	O	106	86.991	0.491	43.509	1.00173.05	O
ATOM	26346	CA	ALA	O	106	85.922	1.454	43.738	1.00170.65	O
ATOM	26347	CB	ALA	O	106	85.976	1.977	45.170	1.00169.56	O
ATOM	26348	C	ALA	O	106	86.117	2.596	42.749	1.00169.06	O
ATOM	26349	O	ALA	O	106	86.729	3.614	43.077	1.00170.09	O
ATOM	26350	N	ILE	O	107	85.607	2.416	41.533	1.00166.32	O
ATOM	26351	CA	ILE	O	107	85.733	3.427	40.488	1.00163.56	O
ATOM	26352	CB	ILE	O	107	85.011	2.996	39.193	1.00162.66	O
ATOM	26353	CG2	ILE	O	107	85.272	4.013	38.091	1.00161.31	O
ATOM	26354	CG1	ILE	O	107	85.504	1.617	38.750	1.00161.79	O
ATOM	26355	CD1	ILE	O	107	86.988	1.551	38.465	1.00160.62	O
ATOM	26356	C	ILE	O	107	85.157	4.762	40.942	1.00162.38	O
ATOM	26357	O	ILE	O	107	84.036	4.829	41.450	1.00162.73	O
ATOM	26358	N	ILE	O	108	85.930	5.825	40.749	1.00160.32	O
ATOM	26359	CA	ILE	O	108	85.507	7.161	41.142	1.00158.18	O
ATOM	26360	CB	ILE	O	108	86.405	7.714	42.268	1.00158.74	O
ATOM	26361	CG2	ILE	O	108	85.859	9.050	42.758	1.00159.44	O
ATOM	26362	CG1	ILE	O	108	86.474	6.703	43.418	1.00159.03	O
ATOM	26363	CD1	ILE	O	108	87.443	7.079	44.527	1.00159.45	O
ATOM	26364	C	ILE	O	108	85.577	8.110	39.955	1.00156.40	O
ATOM	26365	O	ILE	O	108	86.428	7.964	39.078	1.00155.60	O
ATOM	26366	N	SER	O	109	84.672	9.080	39.927	1.00155.26	O
ATOM	26367	CA	SER	O	109	84.650	10.061	38.850	1.00154.29	O
ATOM	26368	CB	SER	O	109	83.303	10.038	38.121	1.00155.46	O
ATOM	26369	OG	SER	O	109	83.178	8.881	37.310	1.00155.12	O
ATOM	26370	C	SER	O	109	84.928	11.459	39.385	1.00152.04	O
ATOM	26371	O	SER	O	109	84.314	11.905	40.357	1.00151.20	O
ATOM	26372	N	ARG	O	110	85.869	12.140	38.744	1.00149.12	O
ATOM	26373	CA	ARG	O	110	86.245	13.487	39.137	1.00145.71	O
ATOM	26374	CB	ARG	O	110	87.697	13.509	39.628	1.00146.21	O
ATOM	26375	CG	ARG	O	110	88.366	14.859	39.474	1.00145.63	O
ATOM	26376	CD	ARG	O	110	89.721	14.939	40.155	1.00145.19	O
ATOM	26377	NE	ARG	O	110	89.593	15.043	41.603	1.00144.35	O
ATOM	26378	CZ	ARG	O	110	90.551	15.505	42.400	1.00144.21	O
ATOM	26379	NH1	ARG	O	110	91.710	15.909	41.886	1.00142.57	O
ATOM	26380	NH2	ARG	O	110	90.352	15.569	43.710	1.00144.11	O
ATOM	26381	C	ARG	O	110	86.071	14.454	37.970	1.00142.97	O
ATOM	26382	O	ARG	O	110	86.651	14.270	36.895	1.00141.66	O
ATOM	26383	N	ILE	O	111	85.254	15.480	38.188	1.00140.42	O
ATOM	26384	CA	ILE	O	111	84.998	16.486	37.167	1.00138.14	O
ATOM	26385	CB	ILE	O	111	83.603	16.300	36.523	1.00136.96	O
ATOM	26386	CG2	ILE	O	111	83.490	14.899	35.951	1.00137.82	O
ATOM	26387	CG1	ILE	O	111	82.494	16.537	37.550	1.00135.22	O
ATOM	26388	CD1	ILE	O	111	81.098	16.496	36.957	1.00129.50	O
ATOM	26389	C	ILE	O	111	85.096	17.890	37.748	1.00136.36	O
ATOM	26390	O	ILE	O	111	84.804	18.115	38.922	1.00135.39	O
ATOM	26391	N	LYS	O	112	85.508	18.831	36.907	1.00135.16	O
ATOM	26392	CA	LYS	O	112	85.674	20.221	37.314	1.00134.28	O
ATOM	26393	CB	LYS	O	112	86.312	21.017	36.176	1.00133.10	O
ATOM	26394	CG	LYS	O	112	87.596	20.400	35.654	1.00131.96	O
ATOM	26395	CD	LYS	O	112	88.103	21.133	34.431	1.00130.93	O
ATOM	26396	CE	LYS	O	112	89.311	20.430	33.842	1.00130.75	O
ATOM	26397	NZ	LYS	O	112	89.739	21.051	32.557	1.00130.88	O
ATOM	26398	C	LYS	O	112	84.374	20.894	37.733	1.00133.94	O
ATOM	26399	O	LYS	O	112	83.331	20.692	37.120	1.00133.82	O

ATOM	26400	N	LEU	O	113	84.459	21.701	38.785	1.00133.87	O
ATOM	26401	CA	LEU	O	113	83.321	22.444	39.315	1.00134.06	O
ATOM	26402	CB	LEU	O	113	82.893	21.862	40.662	1.00130.77	O
ATOM	26403	CG	LEU	O	113	82.025	22.720	41.586	1.00127.37	O
ATOM	26404	CD1	LEU	O	113	80.801	23.246	40.858	1.00125.49	O
ATOM	26405	CD2	LEU	O	113	81.612	21.874	42.769	1.00126.43	O
ATOM	26406	C	LEU	O	113	83.756	23.892	39.482	1.00135.95	O
ATOM	26407	O	LEU	O	113	84.547	24.210	40.366	1.00137.11	O
ATOM	26408	N	TYR	O	114	83.233	24.767	38.633	1.00138.81	O
ATOM	26409	CA	TYR	O	114	83.606	26.175	38.676	1.00142.04	O
ATOM	26410	CB	TYR	O	114	83.762	26.713	37.256	1.00144.21	O
ATOM	26411	CG	TYR	O	114	84.883	26.065	36.493	1.00147.16	O
ATOM	26412	CD1	TYR	O	114	84.633	25.359	35.320	1.00148.03	O
ATOM	26413	CE1	TYR	O	114	85.663	24.749	34.618	1.00149.98	O
ATOM	26414	CD2	TYR	O	114	86.198	26.150	36.949	1.00148.69	O
ATOM	26415	CE2	TYR	O	114	87.237	25.547	36.253	1.00150.08	O
ATOM	26416	CZ	TYR	O	114	86.964	24.847	35.088	1.00150.30	O
ATOM	26417	OH	TYR	O	114	87.991	24.253	34.389	1.00150.58	O
ATOM	26418	C	TYR	O	114	82.682	27.105	39.442	1.00142.76	O
ATOM	26419	O	TYR	O	114	81.491	27.199	39.148	1.00142.47	O
ATOM	26420	N	TYR	O	115	83.245	27.799	40.424	1.00144.25	O
ATOM	26421	CA	TYR	O	115	82.483	28.762	41.200	1.00146.88	O
ATOM	26422	CB	TYR	O	115	83.112	28.983	42.575	1.00147.39	O
ATOM	26423	CG	TYR	O	115	82.368	29.996	43.422	1.00148.28	O
ATOM	26424	CD1	TYR	O	115	81.056	29.749	43.846	1.00149.31	O
ATOM	26425	CE1	TYR	O	115	80.361	30.676	44.624	1.00149.47	O
ATOM	26426	CD2	TYR	O	115	82.973	31.201	43.797	1.00147.47	O
ATOM	26427	CE2	TYR	O	115	82.290	32.137	44.576	1.00147.78	O
ATOM	26428	CZ	TYR	O	115	80.985	31.867	44.986	1.00148.89	O
ATOM	26429	OH	TYR	O	115	80.307	32.783	45.759	1.00147.37	O
ATOM	26430	C	TYR	O	115	82.553	30.050	40.396	1.00148.95	O
ATOM	26431	O	TYR	O	115	83.415	30.894	40.636	1.00148.75	O
ATOM	26432	N	ARG	O	116	81.650	30.182	39.429	1.00151.91	O
ATOM	26433	CA	ARG	O	116	81.599	31.357	38.564	1.00154.29	O
ATOM	26434	CB	ARG	O	116	81.078	30.956	37.184	1.00153.72	O
ATOM	26435	CG	ARG	O	116	80.965	32.099	36.192	1.00153.67	O
ATOM	26436	CD	ARG	O	116	80.353	31.608	34.889	1.00154.88	O
ATOM	26437	NE	ARG	O	116	81.152	30.546	34.286	1.00155.00	O
ATOM	26438	CZ	ARG	O	116	80.773	29.831	33.230	1.00154.27	O
ATOM	26439	NH1	ARG	O	116	79.598	30.062	32.656	1.00152.62	O
ATOM	26440	NH2	ARG	O	116	81.570	28.885	32.747	1.00153.86	O
ATOM	26441	C	ARG	O	116	80.715	32.462	39.145	1.00156.06	O
ATOM	26442	O	ARG	O	116	79.486	32.373	39.101	1.00155.96	O
ATOM	26443	N	PRO	O	117	81.335	33.522	39.694	1.00157.49	O
ATOM	26444	CD	PRO	O	117	82.790	33.709	39.829	1.00157.72	O
ATOM	26445	CA	PRO	O	117	80.615	34.652	40.288	1.00157.96	O
ATOM	26446	CB	PRO	O	117	81.730	35.648	40.585	1.00158.12	O
ATOM	26447	CG	PRO	O	117	82.877	34.752	40.918	1.00157.45	O
ATOM	26448	C	PRO	O	117	79.568	35.226	39.343	1.00158.31	O
ATOM	26449	O	PRO	O	117	79.907	35.851	38.340	1.00158.02	O
ATOM	26450	N	ALA	O	118	78.298	35.002	39.663	1.00158.58	O
ATOM	26451	CA	ALA	O	118	77.207	35.507	38.842	1.00158.79	O
ATOM	26452	CB	ALA	O	118	75.881	34.943	39.335	1.00157.24	O
ATOM	26453	C	ALA	O	118	77.202	37.031	38.921	1.00160.02	O
ATOM	26454	O	ALA	O	118	76.372	37.620	39.610	1.00159.94	O
ATOM	26455	N	LYS	O	119	78.142	37.655	38.213	1.00162.06	O
ATOM	26456	CA	LYS	O	119	78.283	39.112	38.185	1.00163.72	O
ATOM	26457	CB	LYS	O	119	78.561	39.642	39.598	1.00164.20	O

ATOM	26458	CG	LYS	O	119	78.236	41.115	39.807	1.00164.49	O
ATOM	26459	CD	LYS	O	119	76.733	41.334	39.804	1.00165.13	O
ATOM	26460	CE	LYS	O	119	76.369	42.755	40.199	1.00165.82	O
ATOM	26461	NZ	LYS	O	119	74.892	42.930	40.323	1.00166.66	O
ATOM	26462	C	LYS	O	119	79.454	39.476	37.268	1.00164.65	O
ATOM	26463	O	LYS	O	119	79.986	40.585	37.337	1.00165.09	O
ATOM	26464	N	LEU	O	120	79.849	38.532	36.415	1.00164.98	O
ATOM	26465	CA	LEU	O	120	80.968	38.723	35.495	1.00165.24	O
ATOM	26466	CB	LEU	O	120	81.637	37.374	35.211	1.00164.29	O
ATOM	26467	CG	LEU	O	120	82.089	36.575	36.440	1.00163.44	O
ATOM	26468	CD1	LEU	O	120	82.708	35.260	35.995	1.00163.15	O
ATOM	26469	CD2	LEU	O	120	83.089	37.386	37.256	1.00162.62	O
ATOM	26470	C	LEU	O	120	80.559	39.390	34.182	1.00165.69	O
ATOM	26471	O	LEU	O	120	79.500	39.097	33.622	1.00165.21	O
ATOM	26472	N	ALA	O	121	81.414	40.288	33.701	1.00166.62	O
ATOM	26473	CA	ALA	O	121	81.168	41.018	32.461	1.00167.36	O
ATOM	26474	CB	ALA	O	121	82.150	42.180	32.338	1.00167.18	O
ATOM	26475	C	ALA	O	121	81.293	40.102	31.248	1.00168.01	O
ATOM	26476	O	ALA	O	121	80.296	39.560	30.763	1.00168.19	O
ATOM	26477	N	LEU	O	122	82.519	39.944	30.758	1.00167.78	O
ATOM	26478	CA	LEU	O	122	82.788	39.096	29.603	1.00167.76	O
ATOM	26479	CB	LEU	O	122	84.294	38.847	29.484	1.00166.84	O
ATOM	26480	CG	LEU	O	122	84.725	37.732	28.530	1.00166.34	O
ATOM	26481	CD1	LEU	O	122	84.202	38.022	27.140	1.00165.75	O
ATOM	26482	CD2	LEU	O	122	86.236	37.622	28.520	1.00166.29	O
ATOM	26483	C	LEU	O	122	82.057	37.758	29.698	1.00168.38	O
ATOM	26484	O	LEU	O	122	82.423	36.905	30.506	1.00168.79	O
ATOM	26485	N	PRO	O	123	81.015	37.557	28.872	1.00168.81	O
ATOM	26486	CD	PRO	O	123	80.542	38.417	27.773	1.00168.92	O
ATOM	26487	CA	PRO	O	123	80.267	36.295	28.904	1.00169.30	O
ATOM	26488	CB	PRO	O	123	79.197	36.504	27.835	1.00168.84	O
ATOM	26489	CG	PRO	O	123	79.869	37.418	26.862	1.00168.72	O
ATOM	26490	C	PRO	O	123	81.185	35.099	28.609	1.00169.69	O
ATOM	26491	O	PRO	O	123	82.119	35.204	27.809	1.00169.70	O
ATOM	26492	N	PRO	O	124	80.920	33.944	29.247	1.00169.33	O
ATOM	26493	CD	PRO	O	124	79.695	33.646	30.009	1.00168.79	O
ATOM	26494	CA	PRO	O	124	81.723	32.727	29.066	1.00168.50	O
ATOM	26495	CB	PRO	O	124	80.883	31.650	29.763	1.00167.83	O
ATOM	26496	CG	PRO	O	124	79.488	32.193	29.700	1.00168.04	O
ATOM	26497	C	PRO	O	124	82.088	32.351	27.628	1.00168.01	O
ATOM	26498	O	PRO	O	124	83.224	31.964	27.350	1.00167.61	O
ATOM	26499	N	ASP	O	125	81.127	32.473	26.720	1.00167.87	O
ATOM	26500	CA	ASP	O	125	81.341	32.133	25.315	1.00167.73	O
ATOM	26501	CB	ASP	O	125	80.022	32.256	24.549	1.00168.62	O
ATOM	26502	CG	ASP	O	125	79.378	33.621	24.712	1.00169.21	O
ATOM	26503	OD1	ASP	O	125	80.019	34.631	24.352	1.00169.62	O
ATOM	26504	OD2	ASP	O	125	78.227	33.683	25.197	1.00169.55	O
ATOM	26505	C	ASP	O	125	82.404	32.983	24.621	1.00167.15	O
ATOM	26506	O	ASP	O	125	83.101	32.509	23.722	1.00166.33	O
ATOM	26507	N	GLN	O	126	82.523	34.237	25.042	1.00167.31	O
ATOM	26508	CA	GLN	O	126	83.482	35.168	24.455	1.00167.13	O
ATOM	26509	CB	GLN	O	126	82.883	36.577	24.490	1.00166.85	O
ATOM	26510	CG	GLN	O	126	83.645	37.633	23.711	1.00166.52	O
ATOM	26511	CD	GLN	O	126	82.937	38.977	23.723	1.00166.34	O
ATOM	26512	OE1	GLN	O	126	83.452	39.969	23.204	1.00166.44	O
ATOM	26513	NE2	GLN	O	126	81.748	39.015	24.314	1.00166.04	O
ATOM	26514	C	GLN	O	126	84.825	35.137	25.189	1.00166.81	O
ATOM	26515	O	GLN	O	126	85.539	36.140	25.251	1.00166.00	O

ATOM	26516	N	ALA	O	127	85.172	33.973	25.728	1.00167.07	O
ATOM	26517	CA	ALA	O	127	86.414	33.817	26.475	1.00167.30	O
ATOM	26518	CB	ALA	O	127	86.145	33.028	27.752	1.00166.89	O
ATOM	26519	C	ALA	O	127	87.555	33.162	25.692	1.00167.65	O
ATOM	26520	O	ALA	O	127	88.701	33.604	25.778	1.00168.44	O
ATOM	26521	N	ALA	O	128	87.246	32.114	24.934	1.00167.64	O
ATOM	26522	CA	ALA	O	128	88.260	31.392	24.162	1.00167.32	O
ATOM	26523	CB	ALA	O	128	87.617	30.210	23.440	1.00166.97	O
ATOM	26524	C	ALA	O	128	89.049	32.241	23.163	1.00167.66	O
ATOM	26525	O	ALA	O	128	90.188	31.904	22.831	1.00167.63	O
ATOM	26526	N	GLU	O	129	88.456	33.332	22.679	1.00168.09	O
ATOM	26527	CA	GLU	O	129	89.142	34.198	21.716	1.00167.95	O
ATOM	26528	CB	GLU	O	129	88.159	35.163	21.046	1.00166.71	O
ATOM	26529	CG	GLU	O	129	86.747	34.642	20.870	1.00165.00	O
ATOM	26530	CD	GLU	O	129	85.783	35.239	21.881	1.00164.85	O
ATOM	26531	OE1	GLU	O	129	84.580	34.914	21.813	1.00165.47	O
ATOM	26532	OE2	GLU	O	129	86.226	36.034	22.738	1.00163.58	O
ATOM	26533	C	GLU	O	129	90.215	35.019	22.428	1.00168.62	O
ATOM	26534	O	GLU	O	129	91.310	35.239	21.897	1.00168.40	O
ATOM	26535	N	LYS	O	130	89.880	35.468	23.635	1.00169.15	O
ATOM	26536	CA	LYS	O	130	90.769	36.278	24.462	1.00169.05	O
ATOM	26537	CB	LYS	O	130	90.045	36.674	25.752	1.00167.30	O
ATOM	26538	CG	LYS	O	130	88.598	37.099	25.551	1.00164.30	O
ATOM	26539	CD	LYS	O	130	88.497	38.283	24.609	1.00161.55	O
ATOM	26540	CE	LYS	O	130	87.053	38.652	24.343	1.00159.97	O
ATOM	26541	NZ	LYS	O	130	86.962	39.794	23.399	1.00157.92	O
ATOM	26542	C	LYS	O	130	92.069	35.560	24.816	1.00169.75	O
ATOM	26543	O	LYS	O	130	92.909	36.105	25.529	1.00169.80	O
ATOM	26544	N	LEU	O	131	92.233	34.339	24.319	1.00170.60	O
ATOM	26545	CA	LEU	O	131	93.430	33.562	24.604	1.00171.11	O
ATOM	26546	CB	LEU	O	131	93.128	32.065	24.480	1.00170.31	O
ATOM	26547	CG	LEU	O	131	94.216	31.074	24.907	1.00169.06	O
ATOM	26548	CD1	LEU	O	131	94.570	31.281	26.373	1.00168.64	O
ATOM	26549	CD2	LEU	O	131	93.717	29.654	24.683	1.00168.44	O
ATOM	26550	C	LEU	O	131	94.574	33.940	23.671	1.00172.05	O
ATOM	26551	O	LEU	O	131	94.545	33.643	22.476	1.00172.20	O
ATOM	26552	N	ARG	O	132	95.574	34.613	24.231	1.00173.08	O
ATOM	26553	CA	ARG	O	132	96.753	35.027	23.479	1.00173.91	O
ATOM	26554	CB	ARG	O	132	97.167	36.445	23.881	1.00173.97	O
ATOM	26555	CG	ARG	O	132	96.040	37.473	23.830	1.00173.47	O
ATOM	26556	CD	ARG	O	132	96.415	38.716	24.638	1.00173.48	O
ATOM	26557	NE	ARG	O	132	95.262	39.563	24.936	1.00172.97	O
ATOM	26558	CZ	ARG	O	132	95.267	40.540	25.840	1.00172.00	O
ATOM	26559	NH1	ARG	O	132	96.368	40.797	26.540	1.00171.27	O
ATOM	26560	NH2	ARG	O	132	94.171	41.258	26.051	1.00171.56	O
ATOM	26561	C	ARG	O	132	97.849	34.030	23.850	1.00174.56	O
ATOM	26562	O	ARG	O	132	97.585	33.072	24.577	1.00174.47	O
ATOM	26563	N	PHE	O	133	99.069	34.241	23.364	1.00175.87	O
ATOM	26564	CA	PHE	O	133	100.160	33.314	23.667	1.00176.74	O
ATOM	26565	CB	PHE	O	133	100.326	32.297	22.528	1.00179.22	O
ATOM	26566	CG	PHE	O	133	99.115	31.438	22.291	1.00180.94	O
ATOM	26567	CD1	PHE	O	133	97.973	31.966	21.694	1.00181.33	O
ATOM	26568	CD2	PHE	O	133	99.115	30.099	22.668	1.00181.60	O
ATOM	26569	CE1	PHE	O	133	96.850	31.174	21.479	1.00181.73	O
ATOM	26570	CE2	PHE	O	133	97.997	29.300	22.456	1.00182.20	O
ATOM	26571	CZ	PHE	O	133	96.862	29.840	21.860	1.00182.29	O
ATOM	26572	C	PHE	O	133	101.517	33.962	23.934	1.00175.65	O
ATOM	26573	O	PHE	O	133	101.615	35.131	24.300	1.00175.33	O

ATOM	26574	N	ARG	O	134	102.559	33.159	23.747	1.00174.49	O
ATOM	26575	CA	ARG	O	134	103.949	33.558	23.934	1.00174.21	O
ATOM	26576	CB	ARG	O	134	104.244	33.837	25.402	1.00172.21	O
ATOM	26577	CG	ARG	O	134	105.702	34.165	25.679	1.00169.32	O
ATOM	26578	CD	ARG	O	134	105.961	34.181	27.166	1.00167.25	O
ATOM	26579	NE	ARG	O	134	104.981	35.014	27.853	1.00165.87	O
ATOM	26580	CZ	ARG	O	134	104.849	35.075	29.174	1.00164.95	O
ATOM	26581	NH1	ARG	O	134	105.640	34.350	29.955	1.00163.57	O
ATOM	26582	NH2	ARG	O	134	103.925	35.859	29.713	1.00163.91	O
ATOM	26583	C	ARG	O	134	104.751	32.352	23.487	1.00175.36	O
ATOM	26584	O	ARG	O	134	105.240	31.578	24.311	1.00175.55	O
ATOM	26585	N	ARG	O	135	104.884	32.198	22.175	1.00177.06	O
ATOM	26586	CA	ARG	O	135	105.584	31.053	21.618	1.00178.58	O
ATOM	26587	CB	ARG	O	135	104.947	30.683	20.272	1.00179.28	O
ATOM	26588	CG	ARG	O	135	105.371	31.522	19.075	1.00179.63	O
ATOM	26589	CD	ARG	O	135	106.328	30.699	18.241	1.00179.80	O
ATOM	26590	NE	ARG	O	135	105.789	29.351	18.113	1.00179.13	O
ATOM	26591	CZ	ARG	O	135	106.517	28.255	17.939	1.00178.30	O
ATOM	26592	NH1	ARG	O	135	105.910	27.080	17.844	1.00178.35	O
ATOM	26593	NH2	ARG	O	135	107.843	28.328	17.862	1.00177.40	O
ATOM	26594	C	ARG	O	135	107.098	31.208	21.476	1.00179.20	O
ATOM	26595	O	ARG	O	135	107.583	32.054	20.723	1.00179.36	O
ATOM	26596	N	SER	O	136	107.832	30.380	22.217	1.00179.60	O
ATOM	26597	CA	SER	O	136	109.294	30.380	22.189	1.00180.23	O
ATOM	26598	CB	SER	O	136	109.858	30.165	23.601	1.00179.25	O
ATOM	26599	OG	SER	O	136	109.480	31.205	24.485	1.00178.13	O
ATOM	26600	C	SER	O	136	109.766	29.245	21.276	1.00180.94	O
ATOM	26601	O	SER	O	136	109.248	29.063	20.171	1.00181.49	O
ATOM	26602	N	ALA	O	137	110.753	28.489	21.742	1.00181.06	O
ATOM	26603	CA	ALA	O	137	111.285	27.361	20.987	1.00180.96	O
ATOM	26604	CB	ALA	O	137	112.744	27.607	20.626	1.00180.76	O
ATOM	26605	C	ALA	O	137	111.160	26.135	21.883	1.00180.89	O
ATOM	26606	O	ALA	O	137	111.464	25.011	21.477	1.00181.21	O
ATOM	26607	N	ASN	O	138	110.708	26.379	23.112	1.00180.31	O
ATOM	26608	CA	ASN	O	138	110.513	25.332	24.108	1.00179.19	O
ATOM	26609	CB	ASN	O	138	111.871	24.816	24.615	1.00179.80	O
ATOM	26610	CG	ASN	O	138	112.732	25.912	25.240	1.00180.84	O
ATOM	26611	OD1	ASN	O	138	112.302	26.624	26.152	1.00181.85	O
ATOM	26612	ND2	ASN	O	138	113.961	26.040	24.754	1.00180.97	O
ATOM	26613	C	ASN	O	138	109.669	25.815	25.293	1.00177.92	O
ATOM	26614	O	ASN	O	138	109.360	25.038	26.198	1.00177.72	O
ATOM	26615	N	SER	O	139	109.289	27.090	25.286	1.00176.27	O
ATOM	26616	CA	SER	O	139	108.498	27.644	26.381	1.00174.70	O
ATOM	26617	CB	SER	O	139	109.378	28.550	27.249	1.00173.58	O
ATOM	26618	OG	SER	O	139	110.439	27.817	27.834	1.00171.66	O
ATOM	26619	C	SER	O	139	107.261	28.418	25.930	1.00174.30	O
ATOM	26620	O	SER	O	139	107.126	29.607	26.225	1.00174.61	O
ATOM	26621	N	LEU	O	140	106.359	27.746	25.218	1.00173.15	O
ATOM	26622	CA	LEU	O	140	105.129	28.385	24.752	1.00171.75	O
ATOM	26623	CB	LEU	O	140	104.354	27.437	23.827	1.00170.66	O
ATOM	26624	CG	LEU	O	140	103.153	27.994	23.053	1.00169.63	O
ATOM	26625	CD1	LEU	O	140	102.689	26.960	22.038	1.00168.81	O
ATOM	26626	CD2	LEU	O	140	102.025	28.358	24.008	1.00169.19	O
ATOM	26627	C	LEU	O	140	104.299	28.718	25.989	1.00170.93	O
ATOM	26628	O	LEU	O	140	104.109	27.870	26.858	1.00170.95	O
ATOM	26629	N	THR	O	141	103.803	29.949	26.067	1.00170.13	O
ATOM	26630	CA	THR	O	141	103.029	30.373	27.226	1.00169.39	O
ATOM	26631	CB	THR	O	141	103.658	31.622	27.876	1.00169.62	O

ATOM	26632	OG1	THR	O	141	105.041	31.369	28.155	1.00170.69	O
ATOM	26633	CG2	THR	O	141	102.934	31.975	29.171	1.00169.11	O
ATOM	26634	C	THR	O	141	101.562	30.680	26.943	1.00168.81	O
ATOM	26635	O	THR	O	141	101.233	31.704	26.337	1.00168.71	O
ATOM	26636	N	LEU	O	142	100.686	29.787	27.394	1.00168.06	O
ATOM	26637	CA	LEU	O	142	99.247	29.967	27.229	1.00166.85	O
ATOM	26638	CB	LEU	O	142	98.499	28.661	27.534	1.00168.08	O
ATOM	26639	CG	LEU	O	142	98.664	27.443	26.614	1.00168.66	O
ATOM	26640	CD1	LEU	O	142	98.009	27.725	25.278	1.00168.65	O
ATOM	26641	CD2	LEU	O	142	100.138	27.105	26.436	1.00169.28	O
ATOM	26642	C	LEU	O	142	98.830	31.043	28.229	1.00165.02	O
ATOM	26643	O	LEU	O	142	99.071	30.911	29.428	1.00162.97	O
ATOM	26644	N	ILE	O	143	98.211	32.110	27.737	1.00164.12	O
ATOM	26645	CA	ILE	O	143	97.786	33.205	28.602	1.00162.61	O
ATOM	26646	CB	ILE	O	143	98.664	34.468	28.348	1.00162.73	O
ATOM	26647	CG2	ILE	O	143	98.902	34.651	26.858	1.00162.24	O
ATOM	26648	CG1	ILE	O	143	98.010	35.710	28.963	1.00162.54	O
ATOM	26649	CD1	ILE	O	143	97.961	35.706	30.479	1.00162.32	O
ATOM	26650	C	ILE	O	143	96.303	33.560	28.458	1.00160.89	O
ATOM	26651	O	ILE	O	143	95.817	33.849	27.364	1.00160.12	O
ATOM	26652	N	ASN	O	144	95.594	33.532	29.582	1.00159.34	O
ATOM	26653	CA	ASN	O	144	94.173	33.847	29.613	1.00158.14	O
ATOM	26654	CB	ASN	O	144	93.372	32.617	30.044	1.00158.44	O
ATOM	26655	CG	ASN	O	144	91.985	32.972	30.542	1.00158.38	O
ATOM	26656	OD1	ASN	O	144	91.239	33.685	29.874	1.00158.30	O
ATOM	26657	ND2	ASN	O	144	91.632	32.471	31.721	1.00156.81	O
ATOM	26658	C	ASN	O	144	93.866	35.011	30.551	1.00157.44	O
ATOM	26659	O	ASN	O	144	94.060	34.914	31.763	1.00156.60	O
ATOM	26660	N	PRO	O	145	93.388	36.134	29.992	1.00157.35	O
ATOM	26661	CD	PRO	O	145	93.425	36.425	28.547	1.00157.30	O
ATOM	26662	CA	PRO	O	145	93.040	37.341	30.745	1.00157.34	O
ATOM	26663	CB	PRO	O	145	93.363	38.450	29.757	1.00157.10	O
ATOM	26664	CG	PRO	O	145	92.886	37.850	28.480	1.00157.21	O
ATOM	26665	C	PRO	O	145	91.574	37.379	31.186	1.00157.07	O
ATOM	26666	O	PRO	O	145	91.134	38.339	31.815	1.00156.69	O
ATOM	26667	N	THR	O	146	90.815	36.343	30.845	1.00156.77	O
ATOM	26668	CA	THR	O	146	89.409	36.287	31.224	1.00156.80	O
ATOM	26669	CB	THR	O	146	88.598	35.413	30.251	1.00157.02	O
ATOM	26670	OG1	THR	O	146	88.911	34.031	30.466	1.00157.69	O
ATOM	26671	CG2	THR	O	146	88.932	35.774	28.814	1.00157.76	O
ATOM	26672	C	THR	O	146	89.301	35.680	32.619	1.00157.06	O
ATOM	26673	O	THR	O	146	90.253	35.078	33.115	1.00157.74	O
ATOM	26674	N	PRO	O	147	88.141	35.836	33.274	1.00156.66	O
ATOM	26675	CD	PRO	O	147	87.028	36.729	32.902	1.00156.32	O
ATOM	26676	CA	PRO	O	147	87.939	35.288	34.619	1.00155.88	O
ATOM	26677	CB	PRO	O	147	86.852	36.188	35.185	1.00156.41	O
ATOM	26678	CG	PRO	O	147	86.002	36.438	33.982	1.00156.61	O
ATOM	26679	C	PRO	O	147	87.527	33.813	34.642	1.00155.53	O
ATOM	26680	O	PRO	O	147	87.048	33.318	35.664	1.00154.83	O
ATOM	26681	N	TYR	O	148	87.716	33.116	33.522	1.00155.94	O
ATOM	26682	CA	TYR	O	148	87.346	31.701	33.422	1.00155.74	O
ATOM	26683	CB	TYR	O	148	86.330	31.475	32.289	1.00157.08	O
ATOM	26684	CG	TYR	O	148	85.097	32.354	32.310	1.00158.52	O
ATOM	26685	CD1	TYR	O	148	85.136	33.661	31.818	1.00159.22	O
ATOM	26686	CE1	TYR	O	148	83.996	34.466	31.815	1.00159.59	O
ATOM	26687	CD2	TYR	O	148	83.883	31.872	32.803	1.00159.33	O
ATOM	26688	CE2	TYR	O	148	82.738	32.667	32.805	1.00159.57	O
ATOM	26689	CZ	TYR	O	148	82.800	33.961	32.311	1.00159.63	O

ATOM	26690	OH	TYR	O	148	81.666	34.742	32.317	1.00160.17	O
ATOM	26691	C	TYR	O	148	88.531	30.768	33.165	1.00154.31	O
ATOM	26692	O	TYR	O	148	89.506	31.151	32.515	1.00153.22	O
ATOM	26693	N	TYR	O	149	88.435	29.538	33.671	1.00153.16	O
ATOM	26694	CA	TYR	O	149	89.482	28.540	33.453	1.00152.26	O
ATOM	26695	CB	TYR	O	149	89.389	27.383	34.459	1.00147.97	O
ATOM	26696	CG	TYR	O	149	89.990	27.631	35.827	1.00143.22	O
ATOM	26697	CD1	TYR	O	149	89.246	28.226	36.842	1.00142.16	O
ATOM	26698	CE1	TYR	O	149	89.785	28.420	38.114	1.00138.89	O
ATOM	26699	CD2	TYR	O	149	91.295	27.237	36.114	1.00140.73	O
ATOM	26700	CE2	TYR	O	149	91.846	27.428	37.380	1.00138.26	O
ATOM	26701	CZ	TYR	O	149	91.084	28.020	38.375	1.00138.21	O
ATOM	26702	OH	TYR	O	149	91.608	28.211	39.634	1.00136.61	O
ATOM	26703	C	TYR	O	149	89.262	27.973	32.058	1.00153.92	O
ATOM	26704	O	TYR	O	149	88.340	27.186	31.847	1.00154.28	O
ATOM	26705	N	LEU	O	150	90.100	28.372	31.108	1.00155.75	O
ATOM	26706	CA	LEU	O	150	89.973	27.889	29.737	1.00156.95	O
ATOM	26707	CB	LEU	O	150	90.667	28.849	28.765	1.00157.71	O
ATOM	26708	CG	LEU	O	150	90.262	30.325	28.795	1.00157.97	O
ATOM	26709	CD1	LEU	O	150	91.075	31.085	27.756	1.00157.42	O
ATOM	26710	CD2	LEU	O	150	88.772	30.468	28.522	1.00157.71	O
ATOM	26711	C	LEU	O	150	90.587	26.502	29.595	1.00157.52	O
ATOM	26712	O	LEU	O	150	91.797	26.337	29.736	1.00157.92	O
ATOM	26713	N	THR	O	151	89.753	25.506	29.316	1.00158.14	O
ATOM	26714	CA	THR	O	151	90.239	24.144	29.156	1.00158.83	O
ATOM	26715	CB	THR	O	151	89.122	23.125	29.458	1.00158.56	O
ATOM	26716	OG1	THR	O	151	88.533	23.423	30.731	1.00156.87	O
ATOM	26717	CG2	THR	O	151	89.686	21.713	29.494	1.00158.94	O
ATOM	26718	C	THR	O	151	90.740	23.946	27.725	1.00159.66	O
ATOM	26719	O	THR	O	151	90.028	23.406	26.879	1.00160.15	O
ATOM	26720	N	VAL	O	152	91.968	24.397	27.465	1.00159.91	O
ATOM	26721	CA	VAL	O	152	92.588	24.294	26.144	1.00159.49	O
ATOM	26722	CB	VAL	O	152	93.869	25.160	26.066	1.00158.14	O
ATOM	26723	CG1	VAL	O	152	94.570	24.945	24.734	1.00157.30	O
ATOM	26724	CG2	VAL	O	152	93.516	26.628	26.244	1.00156.86	O
ATOM	26725	C	VAL	O	152	92.946	22.863	25.752	1.00160.26	O
ATOM	26726	O	VAL	O	152	93.654	22.167	26.478	1.00159.60	O
ATOM	26727	N	THR	O	153	92.452	22.437	24.594	1.00161.84	O
ATOM	26728	CA	THR	O	153	92.713	21.094	24.097	1.00163.84	O
ATOM	26729	CB	THR	O	153	91.493	20.173	24.306	1.00164.74	O
ATOM	26730	OG1	THR	O	153	91.760	18.886	23.735	1.00165.81	O
ATOM	26731	CG2	THR	O	153	90.262	20.767	23.649	1.00164.56	O
ATOM	26732	C	THR	O	153	93.062	21.114	22.612	1.00164.71	O
ATOM	26733	O	THR	O	153	92.888	22.128	21.934	1.00163.91	O
ATOM	26734	N	GLU	O	154	93.553	19.978	22.122	1.00166.29	O
ATOM	26735	CA	GLU	O	154	93.948	19.823	20.727	1.00167.83	O
ATOM	26736	CB	GLU	O	154	92.708	19.768	19.832	1.00167.53	O
ATOM	26737	CG	GLU	O	154	91.666	18.751	20.284	1.00166.69	O
ATOM	26738	CD	GLU	O	154	90.544	18.574	19.278	1.00166.71	O
ATOM	26739	OE1	GLU	O	154	89.520	17.943	19.623	1.00165.28	O
ATOM	26740	OE2	GLU	O	154	90.691	19.058	18.136	1.00167.23	O
ATOM	26741	C	GLU	O	154	94.859	20.968	20.290	1.00169.59	O
ATOM	26742	O	GLU	O	154	94.738	21.485	19.177	1.00169.86	O
ATOM	26743	N	LEU	O	155	95.766	21.362	21.182	1.00171.32	O
ATOM	26744	CA	LEU	O	155	96.713	22.441	20.908	1.00172.97	O
ATOM	26745	CB	LEU	O	155	97.417	22.861	22.204	1.00173.88	O
ATOM	26746	CG	LEU	O	155	98.341	24.083	22.167	1.00174.53	O
ATOM	26747	CD1	LEU	O	155	97.563	25.312	21.718	1.00175.39	O

ATOM	26748	CD2	LEU	O	155	98.933	24.312	23.551	1.00174.94	O
ATOM	26749	C	LEU	O	155	97.738	21.964	19.884	1.00173.67	O
ATOM	26750	O	LEU	O	155	98.225	20.837	19.966	1.00173.50	O
ATOM	26751	N	ASN	O	156	98.065	22.821	18.921	1.00174.74	O
ATOM	26752	CA	ASN	O	156	99.022	22.456	17.882	1.00175.77	O
ATOM	26753	CB	ASN	O	156	98.275	21.966	16.639	1.00174.78	O
ATOM	26754	CG	ASN	O	156	97.203	20.947	16.967	1.00173.83	O
ATOM	26755	OD1	ASN	O	156	97.488	19.878	17.506	1.00173.18	O
ATOM	26756	ND2	ASN	O	156	95.958	21.277	16.644	1.00172.99	O
ATOM	26757	C	ASN	O	156	99.936	23.613	17.488	1.00177.14	O
ATOM	26758	O	ASN	O	156	99.473	24.735	17.270	1.00177.25	O
ATOM	26759	N	ALA	O	157	101.234	23.331	17.392	1.00178.15	O
ATOM	26760	CA	ALA	O	157	102.218	24.337	17.000	1.00178.88	O
ATOM	26761	CB	ALA	O	157	103.625	23.850	17.327	1.00177.89	O
ATOM	26762	C	ALA	O	157	102.068	24.549	15.498	1.00179.52	O
ATOM	26763	O	ALA	O	157	103.032	24.854	14.791	1.00179.29	O
ATOM	26764	N	GLY	O	158	100.835	24.387	15.028	1.00180.29	O
ATOM	26765	CA	GLY	O	158	100.530	24.528	13.619	1.00180.94	O
ATOM	26766	C	GLY	O	158	100.339	23.145	13.028	1.00181.05	O
ATOM	26767	O	GLY	O	158	99.249	22.792	12.576	1.00180.88	O
ATOM	26768	N	THR	O	159	101.413	22.361	13.050	1.00181.06	O
ATOM	26769	CA	THR	O	159	101.406	21.000	12.526	1.00180.85	O
ATOM	26770	CB	THR	O	159	102.441	20.833	11.394	1.00179.89	O
ATOM	26771	OG1	THR	O	159	103.746	21.163	11.886	1.00179.35	O
ATOM	26772	CG2	THR	O	159	102.105	21.746	10.227	1.00178.74	O
ATOM	26773	C	THR	O	159	101.758	20.028	13.647	1.00181.10	O
ATOM	26774	O	THR	O	159	101.248	18.908	13.703	1.00181.11	O
ATOM	26775	N	ARG	O	160	102.636	20.476	14.539	1.00181.03	O
ATOM	26776	CA	ARG	O	160	103.082	19.671	15.667	1.00181.02	O
ATOM	26777	CB	ARG	O	160	104.447	20.177	16.140	1.00182.01	O
ATOM	26778	CG	ARG	O	160	104.937	19.587	17.450	1.00183.23	O
ATOM	26779	CD	ARG	O	160	104.913	18.065	17.462	1.00184.37	O
ATOM	26780	NE	ARG	O	160	105.715	17.545	18.563	1.00185.67	O
ATOM	26781	CZ	ARG	O	160	105.674	16.290	19.001	1.00186.34	O
ATOM	26782	NH1	ARG	O	160	104.862	15.402	18.438	1.00186.33	O
ATOM	26783	NH2	ARG	O	160	106.451	15.924	20.013	1.00186.99	O
ATOM	26784	C	ARG	O	160	102.074	19.707	16.814	1.00180.41	O
ATOM	26785	O	ARG	O	160	101.864	20.752	17.432	1.00180.54	O
ATOM	26786	N	VAL	O	161	101.459	18.558	17.091	1.00178.91	O
ATOM	26787	CA	VAL	O	161	100.465	18.440	18.157	1.00176.91	O
ATOM	26788	CB	VAL	O	161	99.652	17.124	18.032	1.00176.51	O
ATOM	26789	CG1	VAL	O	161	100.571	15.919	18.182	1.00176.23	O
ATOM	26790	CG2	VAL	O	161	98.554	17.089	19.085	1.00175.11	O
ATOM	26791	C	VAL	O	161	101.096	18.490	19.545	1.00175.49	O
ATOM	26792	O	VAL	O	161	102.101	17.830	19.812	1.00174.73	O
ATOM	26793	N	LEU	O	162	100.493	19.279	20.427	1.00174.36	O
ATOM	26794	CA	LEU	O	162	100.988	19.427	21.789	1.00172.65	O
ATOM	26795	CB	LEU	O	162	101.066	20.909	22.164	1.00173.73	O
ATOM	26796	CG	LEU	O	162	102.062	21.751	21.367	1.00174.22	O
ATOM	26797	CD1	LEU	O	162	102.091	23.180	21.899	1.00173.67	O
ATOM	26798	CD2	LEU	O	162	103.435	21.116	21.475	1.00174.05	O
ATOM	26799	C	LEU	O	162	100.117	18.693	22.798	1.00170.69	O
ATOM	26800	O	LEU	O	162	99.403	17.749	22.452	1.00170.43	O
ATOM	26801	N	GLU	O	163	100.180	19.139	24.049	1.00168.58	O
ATOM	26802	CA	GLU	O	163	99.406	18.529	25.117	1.00166.43	O
ATOM	26803	CB	GLU	O	163	100.346	17.993	26.195	1.00166.16	O
ATOM	26804	CG	GLU	O	163	99.673	17.090	27.201	1.00165.57	O
ATOM	26805	CD	GLU	O	163	100.668	16.241	27.955	1.00165.52	O

ATOM	26806	OE1	GLU	O	163	101.454	15.530	27.293	1.00165.27	O
ATOM	26807	OE2	GLU	O	163	100.661	16.281	29.203	1.00165.40	O
ATOM	26808	C	GLU	O	163	98.426	19.532	25.720	1.00165.01	O
ATOM	26809	O	GLU	O	163	98.718	20.726	25.809	1.00164.65	O
ATOM	26810	N	ASN	O	164	97.264	19.029	26.127	1.00163.54	O
ATOM	26811	CA	ASN	O	164	96.205	19.847	26.713	1.00161.67	O
ATOM	26812	CB	ASN	O	164	95.082	18.944	27.236	1.00160.05	O
ATOM	26813	CG	ASN	O	164	94.551	17.999	26.174	1.00158.54	O
ATOM	26814	OD1	ASN	O	164	93.975	18.428	25.175	1.00156.89	O
ATOM	26815	ND2	ASN	O	164	94.750	16.702	26.385	1.00157.41	O
ATOM	26816	C	ASN	O	164	96.709	20.742	27.843	1.00160.57	O
ATOM	26817	O	ASN	O	164	97.839	20.591	28.310	1.00160.88	O
ATOM	26818	N	ALA	O	165	95.862	21.669	28.281	1.00158.83	O
ATOM	26819	CA	ALA	O	165	96.224	22.589	29.353	1.00156.88	O
ATOM	26820	CB	ALA	O	165	97.129	23.681	28.808	1.00157.29	O
ATOM	26821	C	ALA	O	165	94.992	23.210	30.004	1.00155.49	O
ATOM	26822	O	ALA	O	165	93.915	23.238	29.412	1.00156.11	O
ATOM	26823	N	LEU	O	166	95.162	23.706	31.226	1.00153.74	O
ATOM	26824	CA	LEU	O	166	94.071	24.334	31.966	1.00152.80	O
ATOM	26825	CB	LEU	O	166	93.671	23.457	33.159	1.00149.17	O
ATOM	26826	CG	LEU	O	166	92.589	24.020	34.087	1.00146.18	O
ATOM	26827	CD1	LEU	O	166	91.294	24.197	33.319	1.00145.52	O
ATOM	26828	CD2	LEU	O	166	92.382	23.093	35.266	1.00143.32	O
ATOM	26829	C	LEU	O	166	94.484	25.727	32.454	1.00154.09	O
ATOM	26830	O	LEU	O	166	94.873	25.903	33.608	1.00154.22	O
ATOM	26831	N	VAL	O	167	94.395	26.712	31.565	1.00155.73	O
ATOM	26832	CA	VAL	O	167	94.763	28.086	31.888	1.00157.07	O
ATOM	26833	CB	VAL	O	167	94.800	28.962	30.614	1.00156.63	O
ATOM	26834	CG1	VAL	O	167	95.472	30.288	30.915	1.00157.35	O
ATOM	26835	CG2	VAL	O	167	95.533	28.231	29.500	1.00155.51	O
ATOM	26836	C	VAL	O	167	93.784	28.707	32.885	1.00158.57	O
ATOM	26837	O	VAL	O	167	92.606	28.890	32.583	1.00158.19	O
ATOM	26838	N	PRO	O	168	94.266	29.036	34.093	1.00160.51	O
ATOM	26839	CD	PRO	O	168	95.657	28.851	34.545	1.00160.40	O
ATOM	26840	CA	PRO	O	168	93.451	29.638	35.154	1.00162.84	O
ATOM	26841	CB	PRO	O	168	94.388	29.602	36.358	1.00162.20	O
ATOM	26842	CG	PRO	O	168	95.732	29.781	35.728	1.00160.58	O
ATOM	26843	C	PRO	O	168	92.972	31.059	34.828	1.00165.43	O
ATOM	26844	O	PRO	O	168	93.512	31.716	33.936	1.00166.06	O
ATOM	26845	N	PRO	O	169	91.944	31.545	35.551	1.00167.26	O
ATOM	26846	CD	PRO	O	169	91.185	30.797	36.565	1.00167.72	O
ATOM	26847	CA	PRO	O	169	91.365	32.881	35.370	1.00169.01	O
ATOM	26848	CB	PRO	O	169	90.253	32.923	36.416	1.00168.28	O
ATOM	26849	CG	PRO	O	169	89.851	31.500	36.541	1.00167.87	O
ATOM	26850	C	PRO	O	169	92.407	33.964	35.617	1.00171.16	O
ATOM	26851	O	PRO	O	169	93.032	33.998	36.677	1.00171.06	O
ATOM	26852	N	MET	O	170	92.585	34.848	34.640	1.00173.46	O
ATOM	26853	CA	MET	O	170	93.560	35.925	34.763	1.00174.98	O
ATOM	26854	CB	MET	O	170	93.144	36.878	35.886	1.00175.83	O
ATOM	26855	CG	MET	O	170	91.932	37.722	35.547	1.00176.04	O
ATOM	26856	SD	MET	O	170	91.111	38.377	37.007	1.00177.18	O
ATOM	26857	CE	MET	O	170	89.640	37.389	37.004	1.00175.38	O
ATOM	26858	C	MET	O	170	94.935	35.342	35.052	1.00175.34	O
ATOM	26859	O	MET	O	170	95.735	35.928	35.783	1.00175.49	O
ATOM	26860	N	GLY	O	171	95.198	34.177	34.470	1.00175.56	O
ATOM	26861	CA	GLY	O	171	96.473	33.520	34.669	1.00176.21	O
ATOM	26862	C	GLY	O	171	97.046	33.033	33.357	1.00177.10	O
ATOM	26863	O	GLY	O	171	96.560	33.390	32.284	1.00177.32	O

ATOM	26864	N	GLU	O	172	98.086	32.212	33.446	1.00177.98	O
ATOM	26865	CA	GLU	O	172	98.741	31.666	32.268	1.00178.63	O
ATOM	26866	CB	GLU	O	172	99.810	32.649	31.768	1.00179.41	O
ATOM	26867	CG	GLU	O	172	100.659	33.275	32.877	1.00180.08	O
ATOM	26868	CD	GLU	O	172	101.503	34.447	32.391	1.00179.85	O
ATOM	26869	OE1	GLU	O	172	102.390	34.229	31.537	1.00179.72	O
ATOM	26870	OE2	GLU	O	172	101.274	35.584	32.863	1.00179.06	O
ATOM	26871	C	GLU	O	172	99.359	30.308	32.573	1.00178.90	O
ATOM	26872	O	GLU	O	172	99.531	29.940	33.736	1.00177.99	O
ATOM	26873	N	SER	O	173	99.682	29.565	31.521	1.00180.15	O
ATOM	26874	CA	SER	O	173	100.278	28.243	31.671	1.00181.60	O
ATOM	26875	CB	SER	O	173	99.176	27.196	31.845	1.00181.21	O
ATOM	26876	OG	SER	O	173	98.372	27.501	32.973	1.00180.34	O
ATOM	26877	C	SER	O	173	101.140	27.908	30.456	1.00182.69	O
ATOM	26878	O	SER	O	173	100.701	28.045	29.314	1.00182.71	O
ATOM	26879	N	ALA	O	174	102.369	27.468	30.707	1.00183.96	O
ATOM	26880	CA	ALA	O	174	103.291	27.138	29.628	1.00184.80	O
ATOM	26881	CB	ALA	O	174	104.688	27.652	29.974	1.00185.44	O
ATOM	26882	C	ALA	O	174	103.359	25.648	29.292	1.00184.93	O
ATOM	26883	O	ALA	O	174	103.602	24.810	30.162	1.00184.72	O
ATOM	26884	N	VAL	O	175	103.144	25.333	28.020	1.00185.01	O
ATOM	26885	CA	VAL	O	175	103.205	23.964	27.538	1.00185.40	O
ATOM	26886	CB	VAL	O	175	102.005	23.645	26.632	1.00184.74	O
ATOM	26887	CG1	VAL	O	175	102.076	22.201	26.154	1.00183.64	O
ATOM	26888	CG2	VAL	O	175	100.701	23.896	27.363	1.00184.27	O
ATOM	26889	C	VAL	O	175	104.494	23.800	26.748	1.00186.44	O
ATOM	26890	O	VAL	O	175	104.962	24.745	26.112	1.00185.81	O
ATOM	26891	N	LYS	O	176	105.060	22.599	26.804	1.00188.44	O
ATOM	26892	CA	LYS	O	176	106.321	22.298	26.128	1.00190.82	O
ATOM	26893	CB	LYS	O	176	106.720	20.830	26.354	1.00190.29	O
ATOM	26894	CG	LYS	O	176	107.073	20.514	27.799	1.00189.76	O
ATOM	26895	CD	LYS	O	176	105.855	20.649	28.694	1.00190.08	O
ATOM	26896	CE	LYS	O	176	106.267	20.942	30.128	1.00190.85	O
ATOM	26897	NZ	LYS	O	176	106.929	22.291	30.235	1.00190.80	O
ATOM	26898	C	LYS	O	176	106.307	22.580	24.622	1.00192.80	O
ATOM	26899	O	LYS	O	176	105.716	21.831	23.847	1.00193.42	O
ATOM	26900	N	LEU	O	177	106.966	23.657	24.202	1.00194.42	O
ATOM	26901	CA	LEU	O	177	107.047	24.002	22.785	1.00195.48	O
ATOM	26902	CB	LEU	O	177	107.376	25.487	22.626	1.00196.62	O
ATOM	26903	CG	LEU	O	177	107.373	26.048	21.197	1.00197.41	O
ATOM	26904	CD1	LEU	O	177	106.305	25.363	20.341	1.00197.25	O
ATOM	26905	CD2	LEU	O	177	107.097	27.551	21.248	1.00198.08	O
ATOM	26906	C	LEU	O	177	108.131	23.121	22.177	1.00195.81	O
ATOM	26907	O	LEU	O	177	109.322	23.315	22.413	1.00195.48	O
ATOM	26908	N	PRO	O	178	107.711	22.137	21.374	1.00196.53	O
ATOM	26909	CD	PRO	O	178	106.318	22.091	20.893	1.00196.80	O
ATOM	26910	CA	PRO	O	178	108.515	21.136	20.672	1.00197.24	O
ATOM	26911	CB	PRO	O	178	107.461	20.340	19.916	1.00197.06	O
ATOM	26912	CG	PRO	O	178	106.460	21.395	19.568	1.00197.17	O
ATOM	26913	C	PRO	O	178	109.629	21.620	19.745	1.00197.81	O
ATOM	26914	O	PRO	O	178	110.556	20.862	19.439	1.00198.11	O
ATOM	26915	N	SER	O	179	109.547	22.868	19.296	1.00197.88	O
ATOM	26916	CA	SER	O	179	110.539	23.424	18.368	1.00197.57	O
ATOM	26917	CB	SER	O	179	111.975	23.140	18.841	1.00197.03	O
ATOM	26918	OG	SER	O	179	112.938	23.800	18.028	1.00197.04	O
ATOM	26919	C	SER	O	179	110.320	22.877	16.960	1.00197.45	O
ATOM	26920	O	SER	O	179	111.119	23.112	16.042	1.00197.25	O
ATOM	26921	N	ASP	O	180	109.235	22.116	16.823	1.00196.98	O

ATOM	26922	CA	ASP	O	180	108.794	21.542	15.545	1.00195.90	O
ATOM	26923	CB	ASP	O	180	108.349	20.085	15.734	1.00195.60	O
ATOM	26924	CG	ASP	O	180	109.455	19.194	16.269	1.00194.53	O
ATOM	26925	OD1	ASP	O	180	109.183	17.988	16.504	1.00193.62	O
ATOM	26926	OD2	ASP	O	180	110.591	19.686	16.455	1.00193.81	O
ATOM	26927	C	ASP	O	180	107.598	22.449	15.297	1.00194.99	O
ATOM	26928	O	ASP	O	180	106.558	22.067	14.774	1.00194.82	O
ATOM	26929	N	ALA	O	181	107.835	23.685	15.712	1.00194.17	O
ATOM	26930	CA	ALA	O	181	106.921	24.817	15.712	1.00193.40	O
ATOM	26931	CB	ALA	O	181	107.615	25.967	16.348	1.00192.89	O
ATOM	26932	C	ALA	O	181	106.310	25.295	14.398	1.00192.76	O
ATOM	26933	O	ALA	O	181	105.842	24.510	13.573	1.00193.06	O
ATOM	26934	N	GLY	O	182	106.266	26.624	14.280	1.00191.57	O
ATOM	26935	CA	GLY	O	182	105.703	27.324	13.139	1.00190.09	O
ATOM	26936	C	GLY	O	182	105.312	28.694	13.663	1.00189.26	O
ATOM	26937	O	GLY	O	182	106.126	29.619	13.684	1.00188.47	O
ATOM	26938	N	SER	O	183	104.065	28.792	14.105	1.00189.42	O
ATOM	26939	CA	SER	O	183	103.485	30.006	14.658	1.00189.65	O
ATOM	26940	CB	SER	O	183	104.081	31.271	14.025	1.00189.51	O
ATOM	26941	OG	SER	O	183	104.502	32.191	15.023	1.00189.76	O
ATOM	26942	C	SER	O	183	101.988	29.944	14.385	1.00189.44	O
ATOM	26943	O	SER	O	183	101.203	30.754	14.888	1.00189.62	O
ATOM	26944	N	ASN	O	184	101.599	28.965	13.576	1.00188.61	O
ATOM	26945	CA	ASN	O	184	100.197	28.755	13.228	1.00187.17	O
ATOM	26946	CB	ASN	O	184	100.080	27.839	11.995	1.00187.96	O
ATOM	26947	CG	ASN	O	184	98.633	27.533	11.622	1.00188.44	O
ATOM	26948	OD1	ASN	O	184	97.849	28.442	11.345	1.00188.80	O
ATOM	26949	ND2	ASN	O	184	98.274	26.248	11.618	1.00188.24	O
ATOM	26950	C	ASN	O	184	99.476	28.119	14.405	1.00185.33	O
ATOM	26951	O	ASN	O	184	98.696	27.177	14.236	1.00185.40	O
ATOM	26952	N	ILE	O	185	99.752	28.625	15.601	1.00182.85	O
ATOM	26953	CA	ILE	O	185	99.122	28.090	16.799	1.00180.18	O
ATOM	26954	CB	ILE	O	185	99.361	28.996	18.026	1.00179.69	O
ATOM	26955	CG2	ILE	O	185	98.700	28.376	19.256	1.00178.25	O
ATOM	26956	CG1	ILE	O	185	100.862	29.165	18.276	1.00179.04	O
ATOM	26957	CD1	ILE	O	185	101.201	30.058	19.457	1.00177.83	O
ATOM	26958	C	ILE	O	185	97.615	27.935	16.596	1.00178.19	O
ATOM	26959	O	ILE	O	185	96.948	28.852	16.122	1.00177.82	O
ATOM	26960	N	THR	O	186	97.097	26.758	16.936	1.00175.93	O
ATOM	26961	CA	THR	O	186	95.674	26.455	16.805	1.00173.39	O
ATOM	26962	CB	THR	O	186	95.414	25.523	15.611	1.00173.28	O
ATOM	26963	OG1	THR	O	186	96.166	24.314	15.772	1.00172.56	O
ATOM	26964	CG2	THR	O	186	95.825	26.198	14.315	1.00172.35	O
ATOM	26965	C	THR	O	186	95.189	25.774	18.081	1.00171.33	O
ATOM	26966	O	THR	O	186	95.977	25.126	18.772	1.00171.07	O
ATOM	26967	N	TYR	O	187	93.902	25.906	18.395	1.00168.75	O
ATOM	26968	CA	TYR	O	187	93.387	25.305	19.618	1.00166.16	O
ATOM	26969	CB	TYR	O	187	93.909	26.088	20.824	1.00166.34	O
ATOM	26970	CG	TYR	O	187	93.431	27.526	20.878	1.00166.06	O
ATOM	26971	CD1	TYR	O	187	92.245	27.866	21.530	1.00165.28	O
ATOM	26972	CE1	TYR	O	187	91.795	29.187	21.566	1.00165.93	O
ATOM	26973	CD2	TYR	O	187	94.159	28.544	20.259	1.00166.29	O
ATOM	26974	CE2	TYR	O	187	93.718	29.867	20.287	1.00166.42	O
ATOM	26975	CZ	TYR	O	187	92.537	30.183	20.941	1.00166.80	O
ATOM	26976	OH	TYR	O	187	92.104	31.492	20.960	1.00166.99	O
ATOM	26977	C	TYR	O	187	91.872	25.209	19.720	1.00164.14	O
ATOM	26978	O	TYR	O	187	91.137	25.998	19.125	1.00164.36	O
ATOM	26979	N	ARG	O	188	91.420	24.228	20.494	1.00161.38	O

ATOM	26980	CA	ARG	O	188	90.000	24.012	20.739	1.00158.94	O
ATOM	26981	CB	ARG	O	188	89.528	22.704	20.097	1.00158.51	O
ATOM	26982	CG	ARG	O	188	89.620	22.682	18.575	1.00157.70	O
ATOM	26983	CD	ARG	O	188	89.031	21.398	18.002	1.00156.94	O
ATOM	26984	NE	ARG	O	188	87.575	21.339	18.108	1.00155.27	O
ATOM	26985	CZ	ARG	O	188	86.740	22.050	17.355	1.00154.70	O
ATOM	26986	NH1	ARG	O	188	87.210	22.881	16.435	1.00154.83	O
ATOM	26987	NH2	ARG	O	188	85.429	21.926	17.516	1.00154.09	O
ATOM	26988	C	ARG	O	188	89.836	23.940	22.253	1.00157.52	O
ATOM	26989	O	ARG	O	188	90.748	23.509	22.956	1.00156.86	O
ATOM	26990	N	THR	O	189	88.684	24.370	22.756	1.00156.35	O
ATOM	26991	CA	THR	O	189	88.437	24.353	24.194	1.00154.56	O
ATOM	26992	CB	THR	O	189	88.303	25.778	24.758	1.00156.78	O
ATOM	26993	OG1	THR	O	189	87.001	26.290	24.452	1.00158.92	O
ATOM	26994	CG2	THR	O	189	89.358	26.695	24.147	1.00159.32	O
ATOM	26995	C	THR	O	189	87.170	23.589	24.559	1.00151.65	O
ATOM	26996	O	THR	O	189	86.428	23.139	23.687	1.00151.33	O
ATOM	26997	N	ILE	O	190	86.929	23.456	25.859	1.00148.95	O
ATOM	26998	CA	ILE	O	190	85.755	22.753	26.363	1.00146.09	O
ATOM	26999	CB	ILE	O	190	86.152	21.573	27.273	1.00143.37	O
ATOM	27000	CG2	ILE	O	190	84.915	20.789	27.673	1.00141.45	O
ATOM	27001	CG1	ILE	O	190	87.121	20.648	26.542	1.00141.10	O
ATOM	27002	CD1	ILE	O	190	87.608	19.498	27.388	1.00139.52	O
ATOM	27003	C	ILE	O	190	84.883	23.712	27.169	1.00145.49	O
ATOM	27004	O	ILE	O	190	85.302	24.220	28.210	1.00145.57	O
ATOM	27005	N	ASN	O	191	83.669	23.949	26.685	1.00144.07	O
ATOM	27006	CA	ASN	O	191	82.747	24.851	27.356	1.00142.64	O
ATOM	27007	CB	ASN	O	191	81.699	25.354	26.369	1.00143.85	O
ATOM	27008	CG	ASN	O	191	81.007	24.229	25.644	1.00144.45	O
ATOM	27009	OD1	ASN	O	191	80.409	23.350	26.265	1.00145.18	O
ATOM	27010	ND2	ASN	O	191	81.087	24.243	24.318	1.00145.40	O
ATOM	27011	C	ASN	O	191	82.059	24.212	28.556	1.00141.04	O
ATOM	27012	O	ASN	O	191	82.452	23.139	29.010	1.00139.19	O
ATOM	27013	N	ASP	O	192	81.019	24.883	29.045	1.00141.16	O
ATOM	27014	CA	ASP	O	192	80.254	24.450	30.215	1.00141.11	O
ATOM	27015	CB	ASP	O	192	79.239	25.530	30.610	1.00143.21	O
ATOM	27016	CG	ASP	O	192	79.876	26.894	30.814	1.00145.73	O
ATOM	27017	OD1	ASP	O	192	79.178	27.798	31.322	1.00146.75	O
ATOM	27018	OD2	ASP	O	192	81.063	27.067	30.460	1.00147.72	O
ATOM	27019	C	ASP	O	192	79.511	23.122	30.106	1.00139.70	O
ATOM	27020	O	ASP	O	192	79.253	22.474	31.121	1.00138.80	O
ATOM	27021	N	TYR	O	193	79.155	22.717	28.892	1.00139.13	O
ATOM	27022	CA	TYR	O	193	78.420	21.468	28.708	1.00138.92	O
ATOM	27023	CB	TYR	O	193	77.346	21.652	27.635	1.00136.60	O
ATOM	27024	CG	TYR	O	193	76.660	22.997	27.706	1.00134.30	O
ATOM	27025	CD1	TYR	O	193	77.106	24.068	26.931	1.00133.65	O
ATOM	27026	CE1	TYR	O	193	76.502	25.316	27.015	1.00132.71	O
ATOM	27027	CD2	TYR	O	193	75.586	23.209	28.570	1.00132.72	O
ATOM	27028	CE2	TYR	O	193	74.975	24.453	28.662	1.00131.82	O
ATOM	27029	CZ	TYR	O	193	75.436	25.502	27.883	1.00132.21	O
ATOM	27030	OH	TYR	O	193	74.834	26.735	27.968	1.00131.29	O
ATOM	27031	C	TYR	O	193	79.341	20.316	28.333	1.00140.46	O
ATOM	27032	O	TYR	O	193	78.899	19.175	28.195	1.00139.19	O
ATOM	27033	N	GLY	O	194	80.626	20.622	28.185	1.00143.51	O
ATOM	27034	CA	GLY	O	194	81.597	19.607	27.823	1.00145.18	O
ATOM	27035	C	GLY	O	194	81.698	19.465	26.318	1.00145.98	O
ATOM	27036	O	GLY	O	194	81.884	18.363	25.801	1.00146.18	O
ATOM	27037	N	ALA	O	195	81.578	20.587	25.614	1.00146.54	O

ATOM	27038	CA	ALA	O	195	81.637	20.584	24.157	1.00147.71	O
ATOM	27039	CB	ALA	O	195	80.311	21.077	23.593	1.00146.68	O
ATOM	27040	C	ALA	O	195	82.790	21.423	23.597	1.00149.15	O
ATOM	27041	O	ALA	O	195	83.020	22.556	24.023	1.00149.89	O
ATOM	27042	N	LEU	O	196	83.509	20.851	22.636	1.00150.40	O
ATOM	27043	CA	LEU	O	196	84.640	21.517	21.995	1.00151.48	O
ATOM	27044	CB	LEU	O	196	85.307	20.574	20.987	1.00151.50	O
ATOM	27045	CG	LEU	O	196	86.266	19.491	21.480	1.00151.78	O
ATOM	27046	CD1	LEU	O	196	86.578	18.523	20.349	1.00150.97	O
ATOM	27047	CD2	LEU	O	196	87.536	20.147	21.984	1.00153.23	O
ATOM	27048	C	LEU	O	196	84.218	22.780	21.262	1.00152.51	O
ATOM	27049	O	LEU	O	196	83.411	22.720	20.339	1.00153.08	O
ATOM	27050	N	THR	O	197	84.767	23.920	21.666	1.00154.06	O
ATOM	27051	CA	THR	O	197	84.444	25.177	21.000	1.00156.71	O
ATOM	27052	CB	THR	O	197	84.986	26.382	21.789	1.00155.25	O
ATOM	27053	OG1	THR	O	197	86.417	26.337	21.814	1.00154.16	O
ATOM	27054	CG2	THR	O	197	84.456	26.355	23.212	1.00154.56	O
ATOM	27055	C	THR	O	197	85.095	25.125	19.612	1.00159.75	O
ATOM	27056	O	THR	O	197	85.946	24.268	19.357	1.00160.08	O
ATOM	27057	N	PRO	O	198	84.707	26.034	18.696	1.00161.73	O
ATOM	27058	CD	PRO	O	198	83.806	27.190	18.857	1.00161.87	O
ATOM	27059	CA	PRO	O	198	85.295	26.022	17.351	1.00162.47	O
ATOM	27060	CB	PRO	O	198	84.521	27.121	16.629	1.00161.18	O
ATOM	27061	CG	PRO	O	198	84.237	28.093	17.721	1.00160.68	O
ATOM	27062	C	PRO	O	198	86.803	26.250	17.316	1.00163.75	O
ATOM	27063	O	PRO	O	198	87.345	27.047	18.085	1.00164.06	O
ATOM	27064	N	LYS	O	199	87.470	25.536	16.414	1.00165.05	O
ATOM	27065	CA	LYS	O	199	88.915	25.639	16.250	1.00166.79	O
ATOM	27066	CB	LYS	O	199	89.389	24.625	15.204	1.00165.31	O
ATOM	27067	CG	LYS	O	199	90.781	24.873	14.664	1.00163.06	O
ATOM	27068	CD	LYS	O	199	91.107	23.875	13.574	1.00161.35	O
ATOM	27069	CE	LYS	O	199	92.284	24.346	12.744	1.00160.99	O
ATOM	27070	NZ	LYS	O	199	93.472	24.628	13.595	1.00161.17	O
ATOM	27071	C	LYS	O	199	89.319	27.051	15.832	1.00168.51	O
ATOM	27072	O	LYS	O	199	88.894	27.543	14.789	1.00168.63	O
ATOM	27073	N	MET	O	200	90.140	27.697	16.654	1.00170.27	O
ATOM	27074	CA	MET	O	200	90.599	29.055	16.374	1.00172.08	O
ATOM	27075	CB	MET	O	200	90.125	29.992	17.486	1.00171.11	O
ATOM	27076	CG	MET	O	200	89.777	29.272	18.783	1.00169.88	O
ATOM	27077	SD	MET	O	200	88.859	30.306	19.943	1.00168.31	O
ATOM	27078	CE	MET	O	200	87.160	29.937	19.476	1.00167.56	O
ATOM	27079	C	MET	O	200	92.119	29.111	16.227	1.00173.94	O
ATOM	27080	O	MET	O	200	92.793	28.085	16.336	1.00174.09	O
ATOM	27081	N	THR	O	201	92.656	30.304	15.978	1.00175.64	O
ATOM	27082	CA	THR	O	201	94.099	30.465	15.797	1.00176.67	O
ATOM	27083	CB	THR	O	201	94.420	31.302	14.525	1.00176.87	O
ATOM	27084	OG1	THR	O	201	93.759	30.729	13.389	1.00177.07	O
ATOM	27085	CG2	THR	O	201	95.924	31.317	14.257	1.00176.41	O
ATOM	27086	C	THR	O	201	94.792	31.113	16.995	1.00176.87	O
ATOM	27087	O	THR	O	201	94.198	31.911	17.724	1.00176.10	O
ATOM	27088	N	GLY	O	202	96.058	30.751	17.184	1.00177.49	O
ATOM	27089	CA	GLY	O	202	96.847	31.283	18.275	1.00178.02	O
ATOM	27090	C	GLY	O	202	97.250	32.719	18.022	1.00178.56	O
ATOM	27091	O	GLY	O	202	98.002	33.012	17.092	1.00178.08	O
ATOM	27092	N	VAL	O	203	96.743	33.613	18.863	1.00179.74	O
ATOM	27093	CA	VAL	O	203	97.017	35.040	18.753	1.00181.41	O
ATOM	27094	CB	VAL	O	203	95.745	35.858	19.070	1.00181.98	O
ATOM	27095	CG1	VAL	O	203	96.001	37.339	18.845	1.00182.67	O

ATOM	27096	CG2	VAL	O	203	94.587	35.368	18.212	1.00182.41	O
ATOM	27097	C	VAL	O	203	98.127	35.477	19.708	1.00182.24	O
ATOM	27098	O	VAL	O	203	97.858	36.122	20.724	1.00182.23	O
ATOM	27099	N	MET	O	204	99.370	35.127	19.379	1.00183.12	O
ATOM	27100	CA	MET	O	204	100.513	35.492	20.215	1.00183.83	O
ATOM	27101	CB	MET	O	204	101.836	35.198	19.493	1.00183.29	O
ATOM	27102	CG	MET	O	204	102.107	33.724	19.212	1.00183.41	O
ATOM	27103	SD	MET	O	204	101.009	33.017	17.964	1.00183.97	O
ATOM	27104	CE	MET	O	204	101.909	33.408	16.468	1.00183.46	O
ATOM	27105	C	MET	O	204	100.459	36.972	20.580	1.00184.81	O
ATOM	27106	O	MET	O	204	100.254	37.824	19.717	1.00184.69	O
ATOM	27107	N	GLU	O	205	100.636	37.271	21.863	1.00185.99	O
ATOM	27108	CA	GLU	O	205	100.612	38.650	22.335	1.00187.11	O
ATOM	27109	CB	GLU	O	205	100.046	38.728	23.756	1.00188.36	O
ATOM	27110	CG	GLU	O	205	100.872	37.983	24.794	1.00189.76	O
ATOM	27111	CD	GLU	O	205	101.037	38.765	26.084	1.00190.05	O
ATOM	27112	OE1	GLU	O	205	101.683	38.241	27.019	1.00190.29	O
ATOM	27113	OE2	GLU	O	205	100.528	39.904	26.160	1.00190.42	O
ATOM	27114	C	GLU	O	205	102.018	39.241	22.317	1.00187.10	O
ATOM	27115	O	GLU	O	205	102.149	40.432	21.960	1.00187.30	O
ATOM	27116	OXT	GLU	O	205	102.965	38.507	22.675	1.00186.72	O
ATOM	27117	CB	PHE	P	1	38.716	27.244	8.742	1.00 84.66	P
ATOM	27118	CG	PHE	P	1	39.786	26.583	9.576	1.00 81.54	P
ATOM	27119	CD1	PHE	P	1	41.096	26.518	9.127	1.00 80.94	P
ATOM	27120	CD2	PHE	P	1	39.487	26.055	10.825	1.00 80.56	P
ATOM	27121	CE1	PHE	P	1	42.095	25.945	9.903	1.00 77.23	P
ATOM	27122	CE2	PHE	P	1	40.477	25.482	11.608	1.00 78.40	P
ATOM	27123	CZ	PHE	P	1	41.785	25.427	11.145	1.00 77.75	P
ATOM	27124	C	PHE	P	1	40.017	29.377	8.508	1.00 87.23	P
ATOM	27125	O	PHE	P	1	40.384	29.434	7.330	1.00 87.39	P
ATOM	27126	N	PHE	P	1	37.580	29.327	8.039	1.00 86.42	P
ATOM	27127	CA	PHE	P	1	38.669	28.772	8.886	1.00 85.33	P
ATOM	27128	N	ALA	P	2	40.745	29.837	9.521	1.00 90.09	P
ATOM	27129	CA	ALA	P	2	42.065	30.432	9.329	1.00 91.89	P
ATOM	27130	CB	ALA	P	2	41.933	31.892	8.902	1.00 91.87	P
ATOM	27131	C	ALA	P	2	42.849	30.328	10.637	1.00 93.43	P
ATOM	27132	O	ALA	P	2	42.268	30.106	11.706	1.00 91.38	P
ATOM	27133	N	CYS	P	3	44.167	30.487	10.545	1.00 95.62	P
ATOM	27134	CA	CYS	P	3	45.033	30.391	11.716	1.00 95.85	P
ATOM	27135	C	CYS	P	3	46.090	31.486	11.703	1.00 97.77	P
ATOM	27136	O	CYS	P	3	46.257	32.186	10.702	1.00 98.18	P
ATOM	27137	CB	CYS	P	3	45.742	29.037	11.732	1.00 94.55	P
ATOM	27138	SG	CYS	P	3	44.704	27.598	11.335	1.00 86.42	P
ATOM	27139	N	LYS	P	4	46.810	31.617	12.816	1.00 99.64	P
ATOM	27140	CA	LYS	P	4	47.868	32.615	12.938	1.00100.42	P
ATOM	27141	CB	LYS	P	4	47.267	34.010	13.147	1.00101.28	P
ATOM	27142	CG	LYS	P	4	46.455	34.200	14.428	1.00103.05	P
ATOM	27143	CD	LYS	P	4	45.696	35.531	14.406	1.00104.65	P
ATOM	27144	CE	LYS	P	4	46.632	36.718	14.157	1.00102.91	P
ATOM	27145	NZ	LYS	P	4	45.897	37.999	13.947	1.00 99.86	P
ATOM	27146	C	LYS	P	4	48.833	32.290	14.072	1.00100.60	P
ATOM	27147	O	LYS	P	4	48.452	31.682	15.074	1.00 99.86	P
ATOM	27148	N	THR	P	5	50.088	32.698	13.901	1.00101.47	P
ATOM	27149	CA	THR	P	5	51.125	32.456	14.899	1.00102.73	P
ATOM	27150	CB	THR	P	5	52.499	32.216	14.228	1.00102.83	P
ATOM	27151	OG1	THR	P	5	52.482	30.956	13.549	1.00100.40	P
ATOM	27152	CG2	THR	P	5	53.614	32.207	15.263	1.00104.66	P
ATOM	27153	C	THR	P	5	51.261	33.608	15.885	1.00103.05	P

ATOM	27154	O	THR	P	5	51.282	34.777	15.498	1.00103.96	P
ATOM	27155	N	ALA	P	6	51.361	33.259	17.163	1.00103.41	P
ATOM	27156	CA	ALA	P	6	51.503	34.234	18.232	1.00105.17	P
ATOM	27157	CB	ALA	P	6	51.804	33.515	19.538	1.00104.52	P
ATOM	27158	C	ALA	P	6	52.596	35.261	17.939	1.00106.64	P
ATOM	27159	O	ALA	P	6	52.629	36.331	18.548	1.00107.12	P
ATOM	27160	N	ASN	P	7	53.490	34.936	17.009	1.00107.71	P
ATOM	27161	CA	ASN	P	7	54.581	35.841	16.653	1.00108.51	P
ATOM	27162	CB	ASN	P	7	55.818	35.038	16.213	1.00112.05	P
ATOM	27163	CG	ASN	P	7	57.100	35.874	16.210	1.00113.08	P
ATOM	27164	OD1	ASN	P	7	57.516	36.396	17.246	1.00111.35	P
ATOM	27165	ND2	ASN	P	7	57.731	35.995	15.042	1.00114.17	P
ATOM	27166	C	ASN	P	7	54.149	36.782	15.533	1.00106.85	P
ATOM	27167	O	ASN	P	7	54.801	37.794	15.267	1.00105.88	P
ATOM	27168	N	GLY	P	8	53.050	36.444	14.871	1.00105.68	P
ATOM	27169	CA	GLY	P	8	52.577	37.294	13.801	1.00105.94	P
ATOM	27170	C	GLY	P	8	51.936	36.556	12.649	1.00105.59	P
ATOM	27171	O	GLY	P	8	50.762	36.197	12.725	1.00106.00	P
ATOM	27172	N	THR	P	9	52.713	36.330	11.590	1.00104.94	P
ATOM	27173	CA	THR	P	9	52.237	35.658	10.380	1.00103.93	P
ATOM	27174	CB	THR	P	9	53.344	34.813	9.721	1.00103.22	P
ATOM	27175	OG1	THR	P	9	54.490	35.634	9.468	1.00102.10	P
ATOM	27176	CG2	THR	P	9	52.847	34.236	8.399	1.00102.28	P
ATOM	27177	C	THR	P	9	51.030	34.761	10.605	1.00103.58	P
ATOM	27178	O	THR	P	9	50.971	34.002	11.574	1.00103.07	P
ATOM	27179	N	ALA	P	10	50.070	34.857	9.693	1.00103.21	P
ATOM	27180	CA	ALA	P	10	48.851	34.071	9.784	1.00104.02	P
ATOM	27181	CB	ALA	P	10	47.674	34.985	10.075	1.00103.21	P
ATOM	27182	C	ALA	P	10	48.602	33.292	8.497	1.00104.16	P
ATOM	27183	O	ALA	P	10	49.111	33.651	7.429	1.00104.97	P
ATOM	27184	N	ILE	P	11	47.822	32.220	8.606	1.00102.24	P
ATOM	27185	CA	ILE	P	11	47.499	31.397	7.454	1.00102.24	P
ATOM	27186	CB	ILE	P	11	47.756	29.911	7.736	1.00103.01	P
ATOM	27187	CG2	ILE	P	11	47.458	29.099	6.494	1.00100.53	P
ATOM	27188	CG1	ILE	P	11	49.218	29.708	8.146	1.00103.33	P
ATOM	27189	CD1	ILE	P	11	49.591	28.272	8.446	1.00101.79	P
ATOM	27190	C	ILE	P	11	46.034	31.611	7.118	1.00102.77	P
ATOM	27191	O	ILE	P	11	45.145	31.222	7.879	1.00102.17	P
ATOM	27192	N	PRO	P	12	45.770	32.232	5.957	1.00103.73	P
ATOM	27193	CD	PRO	P	12	46.821	32.588	4.986	1.00103.10	P
ATOM	27194	CA	PRO	P	12	44.445	32.562	5.420	1.00104.70	P
ATOM	27195	CB	PRO	P	12	44.781	33.371	4.173	1.00103.97	P
ATOM	27196	CG	PRO	P	12	46.039	32.720	3.700	1.00103.94	P
ATOM	27197	C	PRO	P	12	43.484	31.418	5.114	1.00104.79	P
ATOM	27198	O	PRO	P	12	43.829	30.242	5.213	1.00104.53	P
ATOM	27199	N	ILE	P	13	42.266	31.802	4.747	1.00105.47	P
ATOM	27200	CA	ILE	P	13	41.204	30.870	4.396	1.00106.45	P
ATOM	27201	CB	ILE	P	13	39.889	31.625	4.087	1.00104.05	P
ATOM	27202	CG2	ILE	P	13	38.874	30.683	3.461	1.00103.76	P
ATOM	27203	CG1	ILE	P	13	39.347	32.269	5.361	1.00103.43	P
ATOM	27204	CD1	ILE	P	13	38.063	33.031	5.162	1.00102.78	P
ATOM	27205	C	ILE	P	13	41.613	30.102	3.149	1.00108.65	P
ATOM	27206	O	ILE	P	13	42.090	30.691	2.179	1.00110.03	P
ATOM	27207	N	GLY	P	14	41.431	28.787	3.174	1.00110.02	P
ATOM	27208	CA	GLY	P	14	41.777	27.986	2.014	1.00111.02	P
ATOM	27209	C	GLY	P	14	43.204	27.472	1.965	1.00110.89	P
ATOM	27210	O	GLY	P	14	43.700	27.116	0.896	1.00110.86	P
ATOM	27211	N	GLY	P	15	43.869	27.431	3.114	1.00110.64	P

ATOM	27212	CA	GLY	P	15	45.230	26.931	3.145	1.00110.90	P
ATOM	27213	C	GLY	P	15	46.277	27.966	3.495	1.00110.90	P
ATOM	27214	O	GLY	P	15	45.951	29.063	3.945	1.00112.30	P
ATOM	27215	N	GLY	P	16	47.541	27.604	3.288	1.00110.55	P
ATOM	27216	CA	GLY	P	16	48.640	28.506	3.583	1.00109.64	P
ATOM	27217	C	GLY	P	16	49.900	27.795	4.039	1.00108.70	P
ATOM	27218	O	GLY	P	16	50.059	26.590	3.832	1.00108.85	P
ATOM	27219	N	SER	P	17	50.798	28.555	4.659	1.00108.13	P
ATOM	27220	CA	SER	P	17	52.064	28.037	5.164	1.00108.88	P
ATOM	27221	CB	SER	P	17	53.005	27.683	4.007	1.00110.33	P
ATOM	27222	OG	SER	P	17	52.492	26.615	3.229	1.00114.05	P
ATOM	27223	C	SER	P	17	52.707	29.107	6.036	1.00107.73	P
ATOM	27224	O	SER	P	17	52.691	30.286	5.690	1.00107.32	P
ATOM	27225	N	ALA	P	18	53.272	28.694	7.165	1.00106.78	P
ATOM	27226	CA	ALA	P	18	53.903	29.635	8.080	1.00106.26	P
ATOM	27227	CB	ALA	P	18	52.957	29.944	9.233	1.00106.92	P
ATOM	27228	C	ALA	P	18	55.227	29.115	8.620	1.00105.88	P
ATOM	27229	O	ALA	P	18	55.814	28.188	8.068	1.00106.89	P
ATOM	27230	N	ASN	P	19	55.689	29.728	9.704	1.00105.08	P
ATOM	27231	CA	ASN	P	19	56.944	29.356	10.340	1.00105.24	P
ATOM	27232	CB	ASN	P	19	58.114	30.075	9.663	1.00106.15	P
ATOM	27233	CG	ASN	P	19	58.364	29.589	8.255	1.00109.13	P
ATOM	27234	OD1	ASN	P	19	59.167	28.684	8.035	1.00112.27	P
ATOM	27235	ND2	ASN	P	19	57.668	30.182	7.290	1.00108.91	P
ATOM	27236	C	ASN	P	19	56.908	29.756	11.806	1.00105.13	P
ATOM	27237	O	ASN	P	19	56.736	30.930	12.125	1.00107.39	P
ATOM	27238	N	VAL	P	20	57.062	28.788	12.699	1.00103.34	P
ATOM	27239	CA	VAL	P	20	57.071	29.090	14.125	1.00104.40	P
ATOM	27240	CB	VAL	P	20	56.210	28.079	14.917	1.00104.06	P
ATOM	27241	CG1	VAL	P	20	55.897	28.626	16.298	1.00102.21	P
ATOM	27242	CG2	VAL	P	20	54.931	27.787	14.160	1.00105.29	P
ATOM	27243	C	VAL	P	20	58.532	29.020	14.593	1.00105.95	P
ATOM	27244	O	VAL	P	20	59.244	28.066	14.267	1.00106.92	P
ATOM	27245	N	TYR	P	21	58.982	30.026	15.343	1.00104.32	P
ATOM	27246	CA	TYR	P	21	60.366	30.058	15.810	1.00101.29	P
ATOM	27247	CB	TYR	P	21	60.964	31.444	15.554	1.00 92.19	P
ATOM	27248	CG	TYR	P	21	60.879	31.843	14.105	1.00 82.44	P
ATOM	27249	CD1	TYR	P	21	59.682	32.290	13.558	1.00 78.78	P
ATOM	27250	CE1	TYR	P	21	59.567	32.559	12.198	1.00 76.06	P
ATOM	27251	CD2	TYR	P	21	61.969	31.683	13.256	1.00 81.24	P
ATOM	27252	CE2	TYR	P	21	61.867	31.947	11.895	1.00 76.28	P
ATOM	27253	CZ	TYR	P	21	60.660	32.379	11.370	1.00 75.10	P
ATOM	27254	OH	TYR	P	21	60.535	32.580	10.013	1.00 69.04	P
ATOM	27255	C	TYR	P	21	60.517	29.679	17.276	1.00104.07	P
ATOM	27256	O	TYR	P	21	61.458	30.106	17.943	1.00105.87	P
ATOM	27257	N	VAL	P	22	59.591	28.854	17.755	1.00106.40	P
ATOM	27258	CA	VAL	P	22	59.567	28.385	19.138	1.00110.46	P
ATOM	27259	CB	VAL	P	22	58.892	27.001	19.236	1.00112.05	P
ATOM	27260	CG1	VAL	P	22	57.457	27.090	18.762	1.00112.89	P
ATOM	27261	CG2	VAL	P	22	59.668	25.983	18.408	1.00112.53	P
ATOM	27262	C	VAL	P	22	60.917	28.282	19.848	1.00112.45	P
ATOM	27263	O	VAL	P	22	61.937	27.936	19.246	1.00113.80	P
ATOM	27264	N	ASN	P	23	60.904	28.591	21.142	1.00113.40	P
ATOM	27265	CA	ASN	P	23	62.097	28.510	21.970	1.00114.05	P
ATOM	27266	CB	ASN	P	23	62.170	29.683	22.956	1.00115.70	P
ATOM	27267	CG	ASN	P	23	62.300	31.028	22.260	1.00118.32	P
ATOM	27268	OD1	ASN	P	23	63.125	31.198	21.359	1.00118.83	P
ATOM	27269	ND2	ASN	P	23	61.492	31.997	22.685	1.00118.37	P

ATOM	27270	C	ASN	P	23	61.986	27.195	22.728	1.00114.20	P
ATOM	27271	O	ASN	P	23	60.899	26.807	23.165	1.00113.97	P
ATOM	27272	N	LEU	P	24	63.114	26.510	22.879	1.00113.78	P
ATOM	27273	CA	LEU	P	24	63.144	25.223	23.559	1.00112.26	P
ATOM	27274	CB	LEU	P	24	63.565	24.145	22.558	1.00110.83	P
ATOM	27275	CG	LEU	P	24	63.048	24.373	21.134	1.00109.84	P
ATOM	27276	CD1	LEU	P	24	63.730	23.411	20.184	1.00109.19	P
ATOM	27277	CD2	LEU	P	24	61.534	24.214	21.100	1.00110.99	P
ATOM	27278	C	LEU	P	24	64.128	25.258	24.723	1.00111.45	P
ATOM	27279	O	LEU	P	24	65.161	25.917	24.631	1.00110.47	P
ATOM	27280	N	ALA	P	25	63.806	24.557	25.811	1.00111.06	P
ATOM	27281	CA	ALA	P	25	64.684	24.503	26.976	1.00111.56	P
ATOM	27282	CB	ALA	P	25	64.267	23.363	27.891	1.00109.21	P
ATOM	27283	C	ALA	P	25	66.099	24.277	26.459	1.00113.77	P
ATOM	27284	O	ALA	P	25	66.488	23.149	26.174	1.00114.59	P
ATOM	27285	N	PRO	P	26	66.887	25.359	26.333	1.00116.09	P
ATOM	27286	CD	PRO	P	26	66.547	26.693	26.860	1.00117.22	P
ATOM	27287	CA	PRO	P	26	68.270	25.348	25.844	1.00117.12	P
ATOM	27288	CB	PRO	P	26	68.819	26.678	26.352	1.00118.12	P
ATOM	27289	CG	PRO	P	26	67.630	27.562	26.257	1.00117.68	P
ATOM	27290	C	PRO	P	26	69.143	24.167	26.255	1.00117.18	P
ATOM	27291	O	PRO	P	26	70.101	23.840	25.557	1.00116.76	P
ATOM	27292	N	VAL	P	27	68.826	23.531	27.378	1.00117.22	P
ATOM	27293	CA	VAL	P	27	69.621	22.396	27.831	1.00117.55	P
ATOM	27294	CB	VAL	P	27	70.613	22.817	28.929	1.00117.41	P
ATOM	27295	CG1	VAL	P	27	71.366	21.601	29.447	1.00116.17	P
ATOM	27296	CG2	VAL	P	27	71.589	23.840	28.371	1.00118.19	P
ATOM	27297	C	VAL	P	27	68.803	21.217	28.341	1.00118.73	P
ATOM	27298	O	VAL	P	27	68.246	21.254	29.439	1.00118.16	P
ATOM	27299	N	VAL	P	28	68.751	20.168	27.523	1.00120.43	P
ATOM	27300	CA	VAL	P	28	68.027	18.942	27.843	1.00119.50	P
ATOM	27301	CB	VAL	P	28	66.933	18.642	26.803	1.00119.74	P
ATOM	27302	CG1	VAL	P	28	66.113	17.443	27.250	1.00120.35	P
ATOM	27303	CG2	VAL	P	28	66.051	19.860	26.603	1.00121.40	P
ATOM	27304	C	VAL	P	28	69.013	17.783	27.818	1.00118.97	P
ATOM	27305	O	VAL	P	28	69.775	17.633	26.865	1.00118.57	P
ATOM	27306	N	ASN	P	29	68.998	16.963	28.860	1.00119.06	P
ATOM	27307	CA	ASN	P	29	69.904	15.822	28.929	1.00119.36	P
ATOM	27308	CB	ASN	P	29	70.449	15.675	30.348	1.00118.40	P
ATOM	27309	CG	ASN	P	29	71.357	16.818	30.737	1.00117.15	P
ATOM	27310	OD1	ASN	P	29	72.354	17.082	30.067	1.00116.36	P
ATOM	27311	ND2	ASN	P	29	71.017	17.506	31.821	1.00116.64	P
ATOM	27312	C	ASN	P	29	69.224	14.528	28.494	1.00119.49	P
ATOM	27313	O	ASN	P	29	67.997	14.421	28.535	1.00120.91	P
ATOM	27314	N	VAL	P	30	70.023	13.549	28.073	1.00118.67	P
ATOM	27315	CA	VAL	P	30	69.495	12.261	27.626	1.00117.69	P
ATOM	27316	CB	VAL	P	30	70.636	11.257	27.308	1.00116.00	P
ATOM	27317	CG1	VAL	P	30	70.053	9.946	26.813	1.00114.40	P
ATOM	27318	CG2	VAL	P	30	71.570	11.838	26.260	1.00114.79	P
ATOM	27319	C	VAL	P	30	68.578	11.645	28.681	1.00117.44	P
ATOM	27320	O	VAL	P	30	68.713	11.919	29.876	1.00117.02	P
ATOM	27321	N	GLY	P	31	67.643	10.813	28.233	1.00116.87	P
ATOM	27322	CA	GLY	P	31	66.718	10.187	29.156	1.00116.16	P
ATOM	27323	C	GLY	P	31	65.529	11.095	29.390	1.00115.67	P
ATOM	27324	O	GLY	P	31	64.380	10.687	29.207	1.00116.63	P
ATOM	27325	N	GLN	P	32	65.807	12.336	29.788	1.00113.29	P
ATOM	27326	CA	GLN	P	32	64.758	13.317	30.043	1.00109.56	P
ATOM	27327	CB	GLN	P	32	65.366	14.629	30.542	1.00109.12	P

ATOM	27328	CG	GLN	P	32	65.708	14.585	32.022	1.00110.54	P
ATOM	27329	CD	GLN	P	32	66.438	15.819	32.499	1.00112.48	P
ATOM	27330	OE1	GLN	P	32	65.995	16.945	32.268	1.00112.56	P
ATOM	27331	NE2	GLN	P	32	67.563	15.616	33.182	1.00112.25	P
ATOM	27332	C	GLN	P	32	63.893	13.553	28.808	1.00106.91	P
ATOM	27333	O	GLN	P	32	64.062	12.880	27.787	1.00106.85	P
ATOM	27334	N	ASN	P	33	62.985	14.522	28.889	1.00101.72	P
ATOM	27335	CA	ASN	P	33	62.070	14.763	27.783	1.00 95.73	P
ATOM	27336	CB	ASN	P	33	60.702	14.199	28.179	1.00 92.54	P
ATOM	27337	CG	ASN	P	33	59.771	14.031	27.004	1.00 89.51	P
ATOM	27338	OD1	ASN	P	33	58.657	13.541	27.160	1.00 89.17	P
ATOM	27339	ND2	ASN	P	33	60.218	14.432	25.819	1.00 90.87	P
ATOM	27340	C	ASN	P	33	61.906	16.202	27.290	1.00 91.78	P
ATOM	27341	O	ASN	P	33	61.295	17.027	27.965	1.00 91.93	P
ATOM	27342	N	LEU	P	34	62.446	16.499	26.110	1.00 87.19	P
ATOM	27343	CA	LEU	P	34	62.296	17.830	25.532	1.00 84.05	P
ATOM	27344	CB	LEU	P	34	63.140	17.972	24.261	1.00 80.05	P
ATOM	27345	CG	LEU	P	34	62.902	19.207	23.382	1.00 77.94	P
ATOM	27346	CD1	LEU	P	34	62.883	20.464	24.227	1.00 79.35	P
ATOM	27347	CD2	LEU	P	34	63.994	19.298	22.329	1.00 78.35	P
ATOM	27348	C	LEU	P	34	60.815	17.953	25.193	1.00 84.74	P
ATOM	27349	O	LEU	P	34	60.104	16.951	25.177	1.00 84.29	P
ATOM	27350	N	VAL	P	35	60.344	19.170	24.940	1.00 86.30	P
ATOM	27351	CA	VAL	P	35	58.934	19.396	24.616	1.00 87.11	P
ATOM	27352	CB	VAL	P	35	58.085	19.611	25.896	1.00 84.23	P
ATOM	27353	CG1	VAL	P	35	56.667	19.991	25.514	1.00 88.01	P
ATOM	27354	CG2	VAL	P	35	58.072	18.351	26.743	1.00 82.67	P
ATOM	27355	C	VAL	P	35	58.738	20.612	23.715	1.00 88.51	P
ATOM	27356	O	VAL	P	35	59.326	21.670	23.948	1.00 90.23	P
ATOM	27357	N	VAL	P	36	57.912	20.461	22.685	1.00 88.68	P
ATOM	27358	CA	VAL	P	36	57.643	21.568	21.777	1.00 90.81	P
ATOM	27359	CB	VAL	P	36	58.354	21.379	20.415	1.00 91.86	P
ATOM	27360	CG1	VAL	P	36	58.103	22.594	19.514	1.00 88.09	P
ATOM	27361	CG2	VAL	P	36	59.844	21.181	20.633	1.00 92.79	P
ATOM	27362	C	VAL	P	36	56.146	21.712	21.539	1.00 91.91	P
ATOM	27363	O	VAL	P	36	55.642	21.355	20.475	1.00 94.10	P
ATOM	27364	N	ASP	P	37	55.441	22.231	22.542	1.00 90.90	P
ATOM	27365	CA	ASP	P	37	53.998	22.433	22.445	1.00 89.79	P
ATOM	27366	CB	ASP	P	37	53.387	22.556	23.842	1.00 88.47	P
ATOM	27367	CG	ASP	P	37	52.070	23.291	23.829	1.00 83.74	P
ATOM	27368	OD1	ASP	P	37	51.162	22.875	23.083	1.00 80.27	P
ATOM	27369	OD2	ASP	P	37	51.950	24.290	24.564	1.00 88.34	P
ATOM	27370	C	ASP	P	37	53.657	23.676	21.623	1.00 86.66	P
ATOM	27371	O	ASP	P	37	54.122	24.776	21.922	1.00 85.69	P
ATOM	27372	N	LEU	P	38	52.835	23.495	20.594	1.00 83.58	P
ATOM	27373	CA	LEU	P	38	52.460	24.603	19.730	1.00 83.91	P
ATOM	27374	CB	LEU	P	38	52.570	24.177	18.265	1.00 84.37	P
ATOM	27375	CG	LEU	P	38	53.956	23.685	17.835	1.00 84.87	P
ATOM	27376	CD1	LEU	P	38	53.931	23.421	16.351	1.00 86.22	P
ATOM	27377	CD2	LEU	P	38	55.027	24.714	18.164	1.00 81.85	P
ATOM	27378	C	LEU	P	38	51.069	25.175	20.018	1.00 82.20	P
ATOM	27379	O	LEU	P	38	50.646	26.148	19.385	1.00 79.24	P
ATOM	27380	N	SER	P	39	50.360	24.575	20.971	1.00 80.60	P
ATOM	27381	CA	SER	P	39	49.044	25.074	21.347	1.00 79.90	P
ATOM	27382	CB	SER	P	39	48.277	24.030	22.159	1.00 80.27	P
ATOM	27383	OG	SER	P	39	48.842	23.869	23.448	1.00 82.86	P
ATOM	27384	C	SER	P	39	49.336	26.302	22.205	1.00 80.66	P
ATOM	27385	O	SER	P	39	48.687	26.568	23.219	1.00 79.23	P

ATOM	27386	N	THR	P	40	50.344	27.045	21.773	1.00	82.06	P
ATOM	27387	CA	THR	P	40	50.787	28.238	22.456	1.00	83.27	P
ATOM	27388	CB	THR	P	40	51.564	27.871	23.743	1.00	80.98	P
ATOM	27389	OG1	THR	P	40	50.724	27.075	24.592	1.00	77.52	P
ATOM	27390	CG2	THR	P	40	51.997	29.129	24.494	1.00	79.78	P
ATOM	27391	C	THR	P	40	51.707	28.932	21.467	1.00	86.47	P
ATOM	27392	O	THR	P	40	52.661	29.609	21.849	1.00	88.48	P
ATOM	27393	N	GLN	P	41	51.413	28.738	20.185	1.00	88.46	P
ATOM	27394	CA	GLN	P	41	52.194	29.332	19.105	1.00	91.91	P
ATOM	27395	CB	GLN	P	41	53.451	28.505	18.828	1.00	94.77	P
ATOM	27396	CG	GLN	P	41	54.410	28.324	19.995	1.00	99.91	P
ATOM	27397	CD	GLN	P	41	55.233	29.562	20.287	1.00	100.83	P
ATOM	27398	OE1	GLN	P	41	55.737	30.217	19.374	1.00	103.29	P
ATOM	27399	NE2	GLN	P	41	55.391	29.878	21.568	1.00	103.49	P
ATOM	27400	C	GLN	P	41	51.354	29.345	17.832	1.00	93.50	P
ATOM	27401	O	GLN	P	41	51.718	29.988	16.849	1.00	94.64	P
ATOM	27402	N	ILE	P	42	50.237	28.620	17.853	1.00	93.79	P
ATOM	27403	CA	ILE	P	42	49.352	28.514	16.691	1.00	92.50	P
ATOM	27404	CB	ILE	P	42	49.779	27.343	15.787	1.00	91.33	P
ATOM	27405	CG2	ILE	P	42	48.721	27.087	14.724	1.00	87.05	P
ATOM	27406	CG1	ILE	P	42	51.145	27.640	15.171	1.00	88.81	P
ATOM	27407	CD1	ILE	P	42	51.837	26.425	14.620	1.00	91.19	P
ATOM	27408	C	ILE	P	42	47.893	28.291	17.087	1.00	93.56	P
ATOM	27409	O	ILE	P	42	47.566	27.332	17.796	1.00	92.90	P
ATOM	27410	N	PHE	P	43	47.018	29.170	16.605	1.00	93.04	P
ATOM	27411	CA	PHE	P	43	45.596	29.077	16.916	1.00	90.25	P
ATOM	27412	CB	PHE	P	43	45.211	30.100	17.987	1.00	85.53	P
ATOM	27413	CG	PHE	P	43	46.307	30.392	18.963	1.00	82.85	P
ATOM	27414	CD1	PHE	P	43	47.431	31.104	18.559	1.00	80.52	P
ATOM	27415	CD2	PHE	P	43	46.236	29.924	20.276	1.00	80.98	P
ATOM	27416	CE1	PHE	P	43	48.467	31.349	19.437	1.00	82.84	P
ATOM	27417	CE2	PHE	P	43	47.271	30.163	21.171	1.00	82.28	P
ATOM	27418	CZ	PHE	P	43	48.395	30.879	20.743	1.00	85.39	P
ATOM	27419	C	PHE	P	43	44.766	29.327	15.675	1.00	90.53	P
ATOM	27420	O	PHE	P	43	45.140	30.122	14.813	1.00	90.23	P
ATOM	27421	N	CYS	P	44	43.635	28.640	15.592	1.00	92.68	P
ATOM	27422	CA	CYS	P	44	42.732	28.795	14.464	1.00	95.38	P
ATOM	27423	C	CYS	P	44	41.350	29.099	15.022	1.00	97.01	P
ATOM	27424	O	CYS	P	44	41.119	28.988	16.222	1.00	96.71	P
ATOM	27425	CB	CYS	P	44	42.667	27.510	13.637	1.00	95.34	P
ATOM	27426	SG	CYS	P	44	44.265	26.784	13.146	1.00	95.88	P
ATOM	27427	N	HIS	P	45	40.429	29.467	14.142	1.00	99.56	P
ATOM	27428	CA	HIS	P	45	39.070	29.789	14.549	1.00	100.79	P
ATOM	27429	CB	HIS	P	45	38.974	31.268	14.931	1.00	100.05	P
ATOM	27430	CG	HIS	P	45	39.210	32.195	13.780	1.00	101.80	P
ATOM	27431	CD2	HIS	P	45	38.400	33.102	13.183	1.00	103.72	P
ATOM	27432	ND1	HIS	P	45	40.390	32.210	13.066	1.00	103.63	P
ATOM	27433	CE1	HIS	P	45	40.296	33.083	12.078	1.00	102.81	P
ATOM	27434	NE2	HIS	P	45	39.098	33.638	12.127	1.00	104.25	P
ATOM	27435	C	HIS	P	45	38.143	29.517	13.370	1.00	102.60	P
ATOM	27436	O	HIS	P	45	38.575	29.519	12.213	1.00	102.43	P
ATOM	27437	N	ASN	P	46	36.870	29.287	13.669	1.00	104.17	P
ATOM	27438	CA	ASN	P	46	35.873	29.040	12.637	1.00	103.50	P
ATOM	27439	CB	ASN	P	46	34.693	28.267	13.225	1.00	100.21	P
ATOM	27440	CG	ASN	P	46	33.822	27.652	12.162	1.00	99.76	P
ATOM	27441	OD1	ASN	P	46	33.669	28.209	11.080	1.00	98.37	P
ATOM	27442	ND2	ASN	P	46	33.232	26.501	12.467	1.00	98.92	P
ATOM	27443	C	ASN	P	46	35.399	30.410	12.144	1.00	104.35	P

ATOM	27444	O	ASN	P	46	35.179	31.319	12.949	1.00104.70	P
ATOM	27445	N	ASP	P	47	35.259	30.569	10.831	1.00104.57	P
ATOM	27446	CA	ASP	P	47	34.803	31.841	10.273	1.00105.31	P
ATOM	27447	CB	ASP	P	47	35.451	32.098	8.914	1.00103.98	P
ATOM	27448	CG	ASP	P	47	36.904	32.491	9.032	1.00106.93	P
ATOM	27449	OD1	ASP	P	47	37.232	33.270	9.954	1.00109.84	P
ATOM	27450	OD2	ASP	P	47	37.717	32.036	8.201	1.00105.63	P
ATOM	27451	C	ASP	P	47	33.285	31.906	10.129	1.00106.79	P
ATOM	27452	O	ASP	P	47	32.674	32.951	10.365	1.00107.87	P
ATOM	27453	N	TYR	P	48	32.685	30.783	9.741	1.00106.79	P
ATOM	27454	CA	TYR	P	48	31.238	30.676	9.562	1.00105.66	P
ATOM	27455	CB	TYR	P	48	30.932	30.302	8.107	1.00106.38	P
ATOM	27456	CG	TYR	P	48	31.598	31.197	7.075	1.00109.83	P
ATOM	27457	CD1	TYR	P	48	31.909	30.712	5.803	1.00112.02	P
ATOM	27458	CE1	TYR	P	48	32.516	31.526	4.846	1.00112.56	P
ATOM	27459	CD2	TYR	P	48	31.910	32.527	7.362	1.00109.60	P
ATOM	27460	CE2	TYR	P	48	32.515	33.349	6.410	1.00110.36	P
ATOM	27461	CZ	TYR	P	48	32.814	32.840	5.157	1.00111.78	P
ATOM	27462	OH	TYR	P	48	33.412	33.634	4.212	1.00112.39	P
ATOM	27463	C	TYR	P	48	30.742	29.573	10.503	1.00104.34	P
ATOM	27464	O	TYR	P	48	30.243	28.540	10.055	1.00103.74	P
ATOM	27465	N	PRO	P	49	30.864	29.791	11.826	1.00103.67	P
ATOM	27466	CD	PRO	P	49	31.372	31.033	12.438	1.00102.46	P
ATOM	27467	CA	PRO	P	49	30.457	28.842	12.867	1.00103.98	P
ATOM	27468	CB	PRO	P	49	31.042	29.459	14.134	1.00103.20	P
ATOM	27469	CG	PRO	P	49	30.899	30.908	13.870	1.00104.04	P
ATOM	27470	C	PRO	P	49	28.978	28.511	13.027	1.00103.83	P
ATOM	27471	O	PRO	P	49	28.641	27.444	13.537	1.00103.49	P
ATOM	27472	N	GLU	P	50	28.096	29.411	12.608	1.00104.49	P
ATOM	27473	CA	GLU	P	50	26.663	29.167	12.747	1.00105.55	P
ATOM	27474	CB	GLU	P	50	25.882	30.475	12.595	1.00107.20	P
ATOM	27475	CG	GLU	P	50	25.718	31.265	13.889	1.00109.37	P
ATOM	27476	CD	GLU	P	50	27.032	31.763	14.460	1.00113.22	P
ATOM	27477	OE1	GLU	P	50	27.775	32.450	13.726	1.00113.30	P
ATOM	27478	OE2	GLU	P	50	27.314	31.476	15.646	1.00115.16	P
ATOM	27479	C	GLU	P	50	26.102	28.122	11.787	1.00104.58	P
ATOM	27480	O	GLU	P	50	24.954	27.696	11.930	1.00104.50	P
ATOM	27481	N	THR	P	51	26.905	27.702	10.816	1.00103.53	P
ATOM	27482	CA	THR	P	51	26.449	26.704	9.857	1.00103.97	P
ATOM	27483	CB	THR	P	51	26.220	27.320	8.469	1.00105.97	P
ATOM	27484	OG1	THR	P	51	25.449	28.519	8.600	1.00108.71	P
ATOM	27485	CG2	THR	P	51	25.477	26.335	7.570	1.00105.00	P
ATOM	27486	C	THR	P	51	27.472	25.599	9.698	1.00102.34	P
ATOM	27487	O	THR	P	51	27.174	24.420	9.876	1.00101.38	P
ATOM	27488	N	ILE	P	52	28.689	26.003	9.363	1.00101.89	P
ATOM	27489	CA	ILE	P	52	29.779	25.066	9.140	1.00102.31	P
ATOM	27490	CB	ILE	P	52	30.890	25.720	8.301	1.00101.31	P
ATOM	27491	CG2	ILE	P	52	31.760	24.646	7.670	1.00 99.77	P
ATOM	27492	CG1	ILE	P	52	30.268	26.602	7.215	1.00101.53	P
ATOM	27493	CD1	ILE	P	52	31.274	27.420	6.434	1.00 98.69	P
ATOM	27494	C	ILE	P	52	30.417	24.534	10.418	1.00102.53	P
ATOM	27495	O	ILE	P	52	30.410	25.188	11.463	1.00103.80	P
ATOM	27496	N	THR	P	53	30.970	23.331	10.310	1.00101.91	P
ATOM	27497	CA	THR	P	53	31.661	22.678	11.414	1.00100.39	P
ATOM	27498	CB	THR	P	53	30.899	21.415	11.901	1.00102.95	P
ATOM	27499	OG1	THR	P	53	29.580	21.775	12.338	1.00106.61	P
ATOM	27500	CG2	THR	P	53	31.636	20.766	13.058	1.00104.95	P
ATOM	27501	C	THR	P	53	33.028	22.266	10.856	1.00 97.26	P

ATOM	27502	O	THR	P	53	33.115	21.352	10.030	1.00	95.43	P
ATOM	27503	N	ASP	P	54	34.085	22.955	11.289	1.00	94.64	P
ATOM	27504	CA	ASP	P	54	35.441	22.663	10.817	1.00	91.22	P
ATOM	27505	CB	ASP	P	54	36.330	23.907	10.912	1.00	94.05	P
ATOM	27506	CG	ASP	P	54	36.034	24.922	9.822	1.00	95.08	P
ATOM	27507	OD1	ASP	P	54	36.148	24.572	8.623	1.00	94.96	P
ATOM	27508	OD2	ASP	P	54	35.692	26.073	10.168	1.00	96.47	P
ATOM	27509	C	ASP	P	54	36.127	21.500	11.523	1.00	86.48	P
ATOM	27510	O	ASP	P	54	36.071	21.363	12.747	1.00	83.57	P
ATOM	27511	N	TYR	P	55	36.785	20.675	10.713	1.00	84.07	P
ATOM	27512	CA	TYR	P	55	37.493	19.486	11.168	1.00	80.72	P
ATOM	27513	CB	TYR	P	55	36.960	18.273	10.412	1.00	79.83	P
ATOM	27514	CG	TYR	P	55	35.480	18.042	10.610	1.00	79.31	P
ATOM	27515	CD1	TYR	P	55	34.723	17.366	9.647	1.00	78.07	P
ATOM	27516	CE1	TYR	P	55	33.369	17.115	9.841	1.00	76.08	P
ATOM	27517	CD2	TYR	P	55	34.842	18.464	11.773	1.00	78.31	P
ATOM	27518	CE2	TYR	P	55	33.491	18.219	11.977	1.00	81.68	P
ATOM	27519	CZ	TYR	P	55	32.760	17.543	11.009	1.00	79.40	P
ATOM	27520	OH	TYR	P	55	31.423	17.295	11.223	1.00	79.60	P
ATOM	27521	C	TYR	P	55	38.988	19.624	10.930	1.00	77.86	P
ATOM	27522	O	TYR	P	55	39.456	19.533	9.795	1.00	78.43	P
ATOM	27523	N	VAL	P	56	39.731	19.850	12.006	1.00	75.72	P
ATOM	27524	CA	VAL	P	56	41.171	19.998	11.910	1.00	76.00	P
ATOM	27525	CB	VAL	P	56	41.675	21.137	12.807	1.00	77.86	P
ATOM	27526	CG1	VAL	P	56	43.199	21.236	12.737	1.00	76.61	P
ATOM	27527	CG2	VAL	P	56	41.047	22.436	12.366	1.00	76.05	P
ATOM	27528	C	VAL	P	56	41.872	18.707	12.298	1.00	75.33	P
ATOM	27529	O	VAL	P	56	41.513	18.043	13.270	1.00	71.21	P
ATOM	27530	N	THR	P	57	42.886	18.366	11.518	1.00	76.92	P
ATOM	27531	CA	THR	P	57	43.649	17.156	11.735	1.00	79.09	P
ATOM	27532	CB	THR	P	57	43.103	16.025	10.852	1.00	79.78	P
ATOM	27533	OG1	THR	P	57	44.073	14.976	10.752	1.00	80.76	P
ATOM	27534	CG2	THR	P	57	42.790	16.555	9.467	1.00	82.69	P
ATOM	27535	C	THR	P	57	45.109	17.381	11.383	1.00	79.62	P
ATOM	27536	O	THR	P	57	45.435	18.270	10.594	1.00	81.65	P
ATOM	27537	N	LEU	P	58	45.983	16.575	11.983	1.00	79.13	P
ATOM	27538	CA	LEU	P	58	47.419	16.641	11.722	1.00	77.14	P
ATOM	27539	CB	LEU	P	58	48.216	16.403	13.017	1.00	75.69	P
ATOM	27540	CG	LEU	P	58	49.749	16.294	12.921	1.00	74.54	P
ATOM	27541	CD1	LEU	P	58	50.349	17.587	12.393	1.00	69.39	P
ATOM	27542	CD2	LEU	P	58	50.319	15.964	14.289	1.00	71.19	P
ATOM	27543	C	LEU	P	58	47.743	15.554	10.694	1.00	75.24	P
ATOM	27544	O	LEU	P	58	47.845	14.372	11.034	1.00	75.80	P
ATOM	27545	N	GLN	P	59	47.880	15.964	9.438	1.00	73.39	P
ATOM	27546	CA	GLN	P	59	48.178	15.050	8.341	1.00	74.09	P
ATOM	27547	CB	GLN	P	59	48.092	15.797	7.013	1.00	75.65	P
ATOM	27548	CG	GLN	P	59	46.740	15.779	6.348	1.00	84.18	P
ATOM	27549	CD	GLN	P	59	46.651	14.752	5.231	1.00	87.08	P
ATOM	27550	OE1	GLN	P	59	46.641	13.545	5.477	1.00	89.17	P
ATOM	27551	NE2	GLN	P	59	46.594	15.230	3.992	1.00	88.79	P
ATOM	27552	C	GLN	P	59	49.552	14.402	8.441	1.00	73.59	P
ATOM	27553	O	GLN	P	59	49.683	13.199	8.638	1.00	71.89	P
ATOM	27554	N	ARG	P	60	50.576	15.227	8.289	1.00	76.18	P
ATOM	27555	CA	ARG	P	60	51.953	14.773	8.321	1.00	78.25	P
ATOM	27556	CB	ARG	P	60	52.626	15.097	6.981	1.00	82.24	P
ATOM	27557	CG	ARG	P	60	54.086	14.695	6.865	1.00	88.02	P
ATOM	27558	CD	ARG	P	60	54.244	13.190	6.831	1.00	94.40	P
ATOM	27559	NE	ARG	P	60	53.397	12.586	5.805	1.00	104.74	P

ATOM	27560	CZ	ARG	P	60	53.441	11.304	5.446	1.00108.16	P
ATOM	27561	NH1	ARG	P	60	54.301	10.476	6.029	1.00108.72	P
ATOM	27562	NH2	ARG	P	60	52.616	10.846	4.509	1.00109.42	P
ATOM	27563	C	ARG	P	60	52.736	15.417	9.460	1.00 77.25	P
ATOM	27564	O	ARG	P	60	52.285	16.376	10.094	1.00 75.62	P
ATOM	27565	N	GLY	P	61	53.914	14.863	9.708	1.00 76.43	P
ATOM	27566	CA	GLY	P	61	54.788	15.361	10.746	1.00 77.09	P
ATOM	27567	C	GLY	P	61	56.175	14.912	10.349	1.00 77.16	P
ATOM	27568	O	GLY	P	61	56.489	13.727	10.432	1.00 79.56	P
ATOM	27569	N	SER	P	62	57.000	15.849	9.897	1.00 75.75	P
ATOM	27570	CA	SER	P	62	58.357	15.527	9.475	1.00 75.90	P
ATOM	27571	CB	SER	P	62	58.627	16.174	8.122	1.00 74.28	P
ATOM	27572	OG	SER	P	62	57.538	15.940	7.252	1.00 73.57	P
ATOM	27573	C	SER	P	62	59.407	15.977	10.496	1.00 75.98	P
ATOM	27574	O	SER	P	62	59.152	16.853	11.314	1.00 75.79	P
ATOM	27575	N	ALA	P	63	60.586	15.365	10.450	1.00 75.41	P
ATOM	27576	CA	ALA	P	63	61.660	15.706	11.377	1.00 73.59	P
ATOM	27577	CB	ALA	P	63	61.940	14.530	12.310	1.00 71.14	P
ATOM	27578	C	ALA	P	63	62.922	16.078	10.602	1.00 72.84	P
ATOM	27579	O	ALA	P	63	63.208	15.501	9.550	1.00 72.84	P
ATOM	27580	N	TYR	P	64	63.667	17.056	11.114	1.00 72.31	P
ATOM	27581	CA	TYR	P	64	64.894	17.501	10.463	1.00 69.27	P
ATOM	27582	CB	TYR	P	64	64.632	18.752	9.625	1.00 71.26	P
ATOM	27583	CG	TYR	P	64	63.465	18.606	8.671	1.00 75.33	P
ATOM	27584	CD1	TYR	P	64	62.152	18.553	9.145	1.00 79.50	P
ATOM	27585	CE1	TYR	P	64	61.072	18.344	8.275	1.00 78.74	P
ATOM	27586	CD2	TYR	P	64	63.672	18.457	7.301	1.00 76.05	P
ATOM	27587	CE2	TYR	P	64	62.599	18.251	6.422	1.00 73.86	P
ATOM	27588	CZ	TYR	P	64	61.306	18.191	6.916	1.00 75.90	P
ATOM	27589	OH	TYR	P	64	60.253	17.954	6.064	1.00 72.69	P
ATOM	27590	C	TYR	P	64	65.956	17.794	11.505	1.00 66.82	P
ATOM	27591	O	TYR	P	64	65.678	17.793	12.707	1.00 63.49	P
ATOM	27592	N	GLY	P	65	67.175	18.028	11.033	1.00 67.16	P
ATOM	27593	CA	GLY	P	65	68.279	18.321	11.928	1.00 69.31	P
ATOM	27594	C	GLY	P	65	68.426	17.410	13.136	1.00 70.96	P
ATOM	27595	O	GLY	P	65	68.180	16.206	13.080	1.00 69.76	P
ATOM	27596	N	GLY	P	66	68.839	18.007	14.245	1.00 74.07	P
ATOM	27597	CA	GLY	P	66	69.045	17.260	15.469	1.00 78.19	P
ATOM	27598	C	GLY	P	66	67.846	16.507	16.006	1.00 81.23	P
ATOM	27599	O	GLY	P	66	68.001	15.617	16.841	1.00 84.35	P
ATOM	27600	N	VAL	P	67	66.645	16.855	15.558	1.00 82.10	P
ATOM	27601	CA	VAL	P	67	65.462	16.145	16.040	1.00 82.76	P
ATOM	27602	CB	VAL	P	67	64.163	16.967	15.812	1.00 84.50	P
ATOM	27603	CG1	VAL	P	67	62.942	16.081	16.046	1.00 83.51	P
ATOM	27604	CG2	VAL	P	67	64.125	18.160	16.771	1.00 82.81	P
ATOM	27605	C	VAL	P	67	65.363	14.811	15.301	1.00 79.61	P
ATOM	27606	O	VAL	P	67	65.099	13.760	15.895	1.00 78.04	P
ATOM	27607	N	LEU	P	68	65.601	14.872	13.998	1.00 74.86	P
ATOM	27608	CA	LEU	P	68	65.555	13.700	13.146	1.00 71.42	P
ATOM	27609	CB	LEU	P	68	65.801	14.131	11.698	1.00 62.77	P
ATOM	27610	CG	LEU	P	68	65.800	13.037	10.637	1.00 57.78	P
ATOM	27611	CD1	LEU	P	68	64.519	12.210	10.731	1.00 54.60	P
ATOM	27612	CD2	LEU	P	68	65.924	13.683	9.285	1.00 52.24	P
ATOM	27613	C	LEU	P	68	66.586	12.644	13.562	1.00 72.73	P
ATOM	27614	O	LEU	P	68	66.310	11.442	13.538	1.00 76.66	P
ATOM	27615	N	SER	P	69	67.763	13.098	13.974	1.00 69.42	P
ATOM	27616	CA	SER	P	69	68.832	12.191	14.346	1.00 65.32	P
ATOM	27617	CB	SER	P	69	70.095	12.610	13.611	1.00 66.59	P

ATOM	27618	OG	SER	P	69	70.381	13.969	13.886	1.00	68.82	P
ATOM	27619	C	SER	P	69	69.155	12.048	15.828	1.00	63.68	P
ATOM	27620	O	SER	P	69	69.631	11.002	16.254	1.00	62.63	P
ATOM	27621	N	ASN	P	70	68.904	13.078	16.625	1.00	62.54	P
ATOM	27622	CA	ASN	P	70	69.249	12.991	18.037	1.00	62.82	P
ATOM	27623	CB	ASN	P	70	69.961	14.270	18.458	1.00	64.77	P
ATOM	27624	CG	ASN	P	70	71.329	14.408	17.812	1.00	71.23	P
ATOM	27625	OD1	ASN	P	70	72.298	13.773	18.247	1.00	73.95	P
ATOM	27626	ND2	ASN	P	70	71.415	15.225	16.758	1.00	67.76	P
ATOM	27627	C	ASN	P	70	68.150	12.664	19.037	1.00	63.98	P
ATOM	27628	O	ASN	P	70	68.422	12.545	20.239	1.00	64.56	P
ATOM	27629	N	PHE	P	71	66.918	12.502	18.563	1.00	63.07	P
ATOM	27630	CA	PHE	P	71	65.829	12.183	19.476	1.00	59.97	P
ATOM	27631	CB	PHE	P	71	64.973	13.414	19.786	1.00	62.31	P
ATOM	27632	CG	PHE	P	71	65.746	14.577	20.326	1.00	63.40	P
ATOM	27633	CD1	PHE	P	71	66.475	15.406	19.467	1.00	60.07	P
ATOM	27634	CD2	PHE	P	71	65.753	14.845	21.691	1.00	59.46	P
ATOM	27635	CE1	PHE	P	71	67.197	16.484	19.962	1.00	59.56	P
ATOM	27636	CE2	PHE	P	71	66.473	15.920	22.196	1.00	60.84	P
ATOM	27637	CZ	PHE	P	71	67.197	16.741	21.332	1.00	60.85	P
ATOM	27638	C	PHE	P	71	64.896	11.113	18.981	1.00	58.04	P
ATOM	27639	O	PHE	P	71	64.819	10.820	17.803	1.00	57.71	P
ATOM	27640	N	SER	P	72	64.176	10.544	19.929	1.00	60.27	P
ATOM	27641	CA	SER	P	72	63.171	9.530	19.678	1.00	61.58	P
ATOM	27642	CB	SER	P	72	63.428	8.297	20.539	1.00	58.39	P
ATOM	27643	OG	SER	P	72	63.462	8.645	21.916	1.00	51.94	P
ATOM	27644	C	SER	P	72	61.939	10.253	20.185	1.00	66.21	P
ATOM	27645	O	SER	P	72	62.051	11.151	21.025	1.00	65.86	P
ATOM	27646	N	GLY	P	73	60.763	9.897	19.693	1.00	71.00	P
ATOM	27647	CA	GLY	P	73	59.599	10.597	20.190	1.00	75.46	P
ATOM	27648	C	GLY	P	73	58.300	10.481	19.433	1.00	75.19	P
ATOM	27649	O	GLY	P	73	58.186	9.773	18.431	1.00	75.15	P
ATOM	27650	N	THR	P	74	57.318	11.219	19.939	1.00	74.97	P
ATOM	27651	CA	THR	P	74	55.979	11.231	19.387	1.00	75.15	P
ATOM	27652	CB	THR	P	74	55.083	10.277	20.164	1.00	72.66	P
ATOM	27653	OG1	THR	P	74	55.152	10.609	21.554	1.00	65.03	P
ATOM	27654	CG2	THR	P	74	55.526	8.838	19.959	1.00	75.57	P
ATOM	27655	C	THR	P	74	55.343	12.611	19.464	1.00	74.75	P
ATOM	27656	O	THR	P	74	55.868	13.522	20.103	1.00	74.21	P
ATOM	27657	N	VAL	P	75	54.199	12.741	18.805	1.00	75.30	P
ATOM	27658	CA	VAL	P	75	53.445	13.980	18.793	1.00	74.73	P
ATOM	27659	CB	VAL	P	75	53.186	14.465	17.351	1.00	74.05	P
ATOM	27660	CG1	VAL	P	75	52.429	13.402	16.572	1.00	75.57	P
ATOM	27661	CG2	VAL	P	75	52.415	15.762	17.374	1.00	73.26	P
ATOM	27662	C	VAL	P	75	52.111	13.728	19.490	1.00	75.55	P
ATOM	27663	O	VAL	P	75	51.341	12.849	19.092	1.00	74.33	P
ATOM	27664	N	LYS	P	76	51.864	14.483	20.555	1.00	76.56	P
ATOM	27665	CA	LYS	P	76	50.618	14.387	21.311	1.00	76.26	P
ATOM	27666	CB	LYS	P	76	50.837	14.922	22.731	1.00	74.93	P
ATOM	27667	CG	LYS	P	76	49.598	15.424	23.452	1.00	76.22	P
ATOM	27668	CD	LYS	P	76	50.022	16.299	24.644	1.00	82.27	P
ATOM	27669	CE	LYS	P	76	48.855	17.050	25.292	1.00	84.01	P
ATOM	27670	NZ	LYS	P	76	49.293	17.825	26.496	1.00	81.63	P
ATOM	27671	C	LYS	P	76	49.607	15.253	20.558	1.00	75.57	P
ATOM	27672	O	LYS	P	76	49.877	16.428	20.273	1.00	75.19	P
ATOM	27673	N	TYR	P	77	48.462	14.677	20.209	1.00	73.00	P
ATOM	27674	CA	TYR	P	77	47.447	15.438	19.489	1.00	73.12	P
ATOM	27675	CB	TYR	P	77	47.450	15.079	18.009	1.00	70.83	P

ATOM	27676	CG	TYR	P	77	46.495	15.917	17.194	1.00	71.67	P
ATOM	27677	CD1	TYR	P	77	46.836	17.210	16.796	1.00	74.34	P
ATOM	27678	CE1	TYR	P	77	45.962	17.991	16.037	1.00	74.81	P
ATOM	27679	CD2	TYR	P	77	45.250	15.421	16.817	1.00	72.10	P
ATOM	27680	CE2	TYR	P	77	44.366	16.191	16.058	1.00	76.89	P
ATOM	27681	CZ	TYR	P	77	44.730	17.477	15.668	1.00	77.87	P
ATOM	27682	OH	TYR	P	77	43.872	18.236	14.893	1.00	80.59	P
ATOM	27683	C	TYR	P	77	46.047	15.223	20.037	1.00	74.68	P
ATOM	27684	O	TYR	P	77	45.446	14.162	19.836	1.00	75.66	P
ATOM	27685	N	SER	P	78	45.526	16.239	20.717	1.00	74.91	P
ATOM	27686	CA	SER	P	78	44.190	16.162	21.288	1.00	77.30	P
ATOM	27687	CB	SER	P	78	43.134	16.146	20.172	1.00	77.86	P
ATOM	27688	OG	SER	P	78	41.815	16.253	20.692	1.00	73.70	P
ATOM	27689	C	SER	P	78	44.068	14.901	22.131	1.00	78.48	P
ATOM	27690	O	SER	P	78	43.234	14.036	21.861	1.00	81.35	P
ATOM	27691	N	GLY	P	79	44.908	14.798	23.152	1.00	78.33	P
ATOM	27692	CA	GLY	P	79	44.859	13.632	24.011	1.00	80.31	P
ATOM	27693	C	GLY	P	79	45.825	12.555	23.571	1.00	78.66	P
ATOM	27694	O	GLY	P	79	46.989	12.573	23.970	1.00	79.00	P
ATOM	27695	N	SER	P	80	45.347	11.621	22.749	1.00	77.13	P
ATOM	27696	CA	SER	P	80	46.189	10.527	22.265	1.00	76.27	P
ATOM	27697	CB	SER	P	80	45.455	9.687	21.206	1.00	76.54	P
ATOM	27698	OG	SER	P	80	44.445	8.875	21.783	1.00	71.44	P
ATOM	27699	C	SER	P	80	47.516	11.018	21.689	1.00	74.31	P
ATOM	27700	O	SER	P	80	47.638	12.170	21.254	1.00	73.46	P
ATOM	27701	N	SER	P	81	48.508	10.130	21.706	1.00	71.28	P
ATOM	27702	CA	SER	P	81	49.840	10.424	21.192	1.00	67.11	P
ATOM	27703	CB	SER	P	81	50.897	10.154	22.263	1.00	72.32	P
ATOM	27704	OG	SER	P	81	50.623	10.891	23.441	1.00	76.60	P
ATOM	27705	C	SER	P	81	50.081	9.515	20.001	1.00	61.94	P
ATOM	27706	O	SER	P	81	49.490	8.441	19.903	1.00	59.30	P
ATOM	27707	N	TYR	P	82	50.944	9.949	19.093	1.00	58.49	P
ATOM	27708	CA	TYR	P	82	51.233	9.163	17.907	1.00	56.56	P
ATOM	27709	CB	TYR	P	82	50.381	9.677	16.736	1.00	58.20	P
ATOM	27710	CG	TYR	P	82	48.904	9.846	17.072	1.00	63.08	P
ATOM	27711	CD1	TYR	P	82	48.444	10.970	17.772	1.00	65.96	P
ATOM	27712	CE1	TYR	P	82	47.096	11.098	18.146	1.00	59.42	P
ATOM	27713	CD2	TYR	P	82	47.974	8.857	16.746	1.00	63.46	P
ATOM	27714	CE2	TYR	P	82	46.631	8.977	17.110	1.00	61.63	P
ATOM	27715	CZ	TYR	P	82	46.201	10.096	17.814	1.00	62.16	P
ATOM	27716	OH	TYR	P	82	44.879	10.195	18.201	1.00	64.90	P
ATOM	27717	C	TYR	P	82	52.730	9.205	17.550	1.00	55.04	P
ATOM	27718	O	TYR	P	82	53.447	10.140	17.903	1.00	54.11	P
ATOM	27719	N	PRO	P	83	53.222	8.182	16.842	1.00	51.62	P
ATOM	27720	CD	PRO	P	83	52.551	6.991	16.295	1.00	48.83	P
ATOM	27721	CA	PRO	P	83	54.639	8.193	16.486	1.00	50.45	P
ATOM	27722	CB	PRO	P	83	54.782	6.955	15.604	1.00	42.86	P
ATOM	27723	CG	PRO	P	83	53.708	6.058	16.080	1.00	49.91	P
ATOM	27724	C	PRO	P	83	55.042	9.459	15.724	1.00	53.31	P
ATOM	27725	O	PRO	P	83	54.321	9.906	14.825	1.00	56.35	P
ATOM	27726	N	PHE	P	84	56.178	10.047	16.094	1.00	52.67	P
ATOM	27727	CA	PHE	P	84	56.687	11.209	15.378	1.00	52.36	P
ATOM	27728	CB	PHE	P	84	56.623	12.488	16.192	1.00	52.42	P
ATOM	27729	CG	PHE	P	84	57.172	13.676	15.453	1.00	51.63	P
ATOM	27730	CD1	PHE	P	84	56.569	14.118	14.279	1.00	53.44	P
ATOM	27731	CD2	PHE	P	84	58.331	14.309	15.881	1.00	50.62	P
ATOM	27732	CE1	PHE	P	84	57.117	15.171	13.542	1.00	49.33	P
ATOM	27733	CE2	PHE	P	84	58.884	15.362	15.150	1.00	51.20	P

ATOM	27734	CZ	PHE	P	84	58.276	15.789	13.978	1.00	47.15	P
ATOM	27735	C	PHE	P	84	58.137	10.962	15.019	1.00	54.82	P
ATOM	27736	O	PHE	P	84	58.945	10.630	15.889	1.00	57.92	P
ATOM	27737	N	PRO	P	85	58.496	11.127	13.734	1.00	56.34	P
ATOM	27738	CD	PRO	P	85	59.885	10.991	13.261	1.00	54.20	P
ATOM	27739	CA	PRO	P	85	57.620	11.528	12.628	1.00	57.94	P
ATOM	27740	CB	PRO	P	85	58.514	11.365	11.405	1.00	52.60	P
ATOM	27741	CG	PRO	P	85	59.848	11.737	11.940	1.00	55.63	P
ATOM	27742	C	PRO	P	85	56.350	10.700	12.530	1.00	59.90	P
ATOM	27743	O	PRO	P	85	56.342	9.513	12.848	1.00	59.80	P
ATOM	27744	N	THR	P	86	55.277	11.352	12.097	1.00	63.06	P
ATOM	27745	CA	THR	P	86	53.969	10.723	11.940	1.00	60.96	P
ATOM	27746	CB	THR	P	86	52.909	11.766	11.564	1.00	59.08	P
ATOM	27747	OG1	THR	P	86	53.159	12.240	10.233	1.00	53.46	P
ATOM	27748	CG2	THR	P	86	52.967	12.940	12.530	1.00	59.85	P
ATOM	27749	C	THR	P	86	54.009	9.673	10.835	1.00	61.36	P
ATOM	27750	O	THR	P	86	54.787	9.788	9.878	1.00	61.84	P
ATOM	27751	N	THR	P	87	53.157	8.660	10.971	1.00	58.99	P
ATOM	27752	CA	THR	P	87	53.075	7.576	10.002	1.00	58.13	P
ATOM	27753	CB	THR	P	87	53.273	6.205	10.675	1.00	56.89	P
ATOM	27754	OG1	THR	P	87	52.123	5.903	11.478	1.00	61.25	P
ATOM	27755	CG2	THR	P	87	54.515	6.213	11.550	1.00	52.21	P
ATOM	27756	C	THR	P	87	51.703	7.572	9.345	1.00	59.14	P
ATOM	27757	O	THR	P	87	51.421	6.752	8.476	1.00	61.37	P
ATOM	27758	N	SER	P	88	50.840	8.485	9.765	1.00	60.87	P
ATOM	27759	CA	SER	P	88	49.503	8.555	9.197	1.00	61.41	P
ATOM	27760	CB	SER	P	88	48.740	7.267	9.484	1.00	60.97	P
ATOM	27761	OG	SER	P	88	48.545	7.129	10.873	1.00	65.87	P
ATOM	27762	C	SER	P	88	48.734	9.731	9.767	1.00	60.12	P
ATOM	27763	O	SER	P	88	49.099	10.280	10.806	1.00	51.52	P
ATOM	27764	N	GLU	P	89	47.668	10.109	9.066	1.00	65.32	P
ATOM	27765	CA	GLU	P	89	46.830	11.228	9.475	1.00	68.97	P
ATOM	27766	CB	GLU	P	89	45.793	11.540	8.403	1.00	71.45	P
ATOM	27767	CG	GLU	P	89	44.713	12.492	8.871	1.00	71.81	P
ATOM	27768	CD	GLU	P	89	43.782	12.882	7.755	1.00	74.40	P
ATOM	27769	OE1	GLU	P	89	43.237	11.964	7.095	1.00	73.05	P
ATOM	27770	OE2	GLU	P	89	43.602	14.105	7.544	1.00	73.70	P
ATOM	27771	C	GLU	P	89	46.123	10.960	10.792	1.00	70.90	P
ATOM	27772	O	GLU	P	89	45.583	9.876	11.020	1.00	72.17	P
ATOM	27773	N	THR	P	90	46.114	11.979	11.640	1.00	70.61	P
ATOM	27774	CA	THR	P	90	45.516	11.898	12.961	1.00	71.24	P
ATOM	27775	CB	THR	P	90	46.124	13.010	13.848	1.00	70.20	P
ATOM	27776	OG1	THR	P	90	45.877	12.727	15.225	1.00	73.84	P
ATOM	27777	CG2	THR	P	90	45.512	14.350	13.510	1.00	71.88	P
ATOM	27778	C	THR	P	90	43.986	12.038	12.930	1.00	71.01	P
ATOM	27779	O	THR	P	90	43.408	12.437	11.917	1.00	69.22	P
ATOM	27780	N	PRO	P	91	43.309	11.662	14.030	1.00	71.65	P
ATOM	27781	CD	PRO	P	91	43.800	10.827	15.141	1.00	72.08	P
ATOM	27782	CA	PRO	P	91	41.849	11.782	14.087	1.00	73.68	P
ATOM	27783	CB	PRO	P	91	41.513	11.218	15.463	1.00	73.02	P
ATOM	27784	CG	PRO	P	91	42.534	10.152	15.631	1.00	73.51	P
ATOM	27785	C	PRO	P	91	41.526	13.267	13.981	1.00	75.24	P
ATOM	27786	O	PRO	P	91	42.410	14.097	14.186	1.00	76.84	P
ATOM	27787	N	ARG	P	92	40.277	13.608	13.682	1.00	77.46	P
ATOM	27788	CA	ARG	P	92	39.907	15.012	13.535	1.00	79.70	P
ATOM	27789	CB	ARG	P	92	38.934	15.186	12.361	1.00	84.03	P
ATOM	27790	CG	ARG	P	92	37.597	14.458	12.506	1.00	90.43	P
ATOM	27791	CD	ARG	P	92	36.708	14.712	11.286	1.00	93.90	P

ATOM	27792	NE	ARG	P	92	35.404	14.050	11.365	1.00	99.72	P
ATOM	27793	CZ	ARG	P	92	34.490	14.282	12.307	1.00	102.74	P
ATOM	27794	NH1	ARG	P	92	34.724	15.167	13.271	1.00	102.61	P
ATOM	27795	NH2	ARG	P	92	33.337	13.628	12.287	1.00	103.70	P
ATOM	27796	C	ARG	P	92	39.320	15.665	14.780	1.00	79.92	P
ATOM	27797	O	ARG	P	92	38.600	15.038	15.555	1.00	80.44	P
ATOM	27798	N	VAL	P	93	39.649	16.939	14.954	1.00	80.31	P
ATOM	27799	CA	VAL	P	93	39.167	17.743	16.071	1.00	82.33	P
ATOM	27800	CB	VAL	P	93	40.344	18.390	16.818	1.00	84.00	P
ATOM	27801	CG1	VAL	P	93	39.823	19.288	17.933	1.00	85.83	P
ATOM	27802	CG2	VAL	P	93	41.262	17.304	17.366	1.00	81.37	P
ATOM	27803	C	VAL	P	93	38.262	18.844	15.497	1.00	83.50	P
ATOM	27804	O	VAL	P	93	38.577	19.410	14.446	1.00	84.02	P
ATOM	27805	N	VAL	P	94	37.154	19.152	16.176	1.00	83.62	P
ATOM	27806	CA	VAL	P	94	36.213	20.168	15.684	1.00	81.17	P
ATOM	27807	CB	VAL	P	94	34.750	19.871	16.124	1.00	78.27	P
ATOM	27808	CG1	VAL	P	94	34.361	18.454	15.735	1.00	73.68	P
ATOM	27809	CG2	VAL	P	94	34.588	20.098	17.618	1.00	77.12	P
ATOM	27810	C	VAL	P	94	36.518	21.604	16.077	1.00	81.28	P
ATOM	27811	O	VAL	P	94	37.007	21.877	17.172	1.00	80.27	P
ATOM	27812	N	TYR	P	95	36.219	22.518	15.159	1.00	84.96	P
ATOM	27813	CA	TYR	P	95	36.420	23.950	15.373	1.00	86.84	P
ATOM	27814	CB	TYR	P	95	37.565	24.456	14.497	1.00	86.18	P
ATOM	27815	CG	TYR	P	95	38.898	24.199	15.138	1.00	89.38	P
ATOM	27816	CD1	TYR	P	95	39.332	22.903	15.380	1.00	89.45	P
ATOM	27817	CE1	TYR	P	95	40.515	22.660	16.060	1.00	92.50	P
ATOM	27818	CD2	TYR	P	95	39.690	25.254	15.586	1.00	93.98	P
ATOM	27819	CE2	TYR	P	95	40.875	25.025	16.267	1.00	93.37	P
ATOM	27820	CZ	TYR	P	95	41.279	23.725	16.503	1.00	93.75	P
ATOM	27821	OH	TYR	P	95	42.434	23.487	17.203	1.00	92.77	P
ATOM	27822	C	TYR	P	95	35.135	24.720	15.086	1.00	86.98	P
ATOM	27823	O	TYR	P	95	34.700	24.824	13.943	1.00	86.40	P
ATOM	27824	N	ASN	P	96	34.527	25.254	16.138	1.00	87.98	P
ATOM	27825	CA	ASN	P	96	33.278	25.989	16.000	1.00	89.30	P
ATOM	27826	CB	ASN	P	96	32.105	25.050	16.330	1.00	92.01	P
ATOM	27827	CG	ASN	P	96	32.355	24.212	17.586	1.00	97.22	P
ATOM	27828	OD1	ASN	P	96	31.638	23.246	17.856	1.00	99.64	P
ATOM	27829	ND2	ASN	P	96	33.370	24.586	18.359	1.00	97.40	P
ATOM	27830	C	ASN	P	96	33.205	27.269	16.846	1.00	88.49	P
ATOM	27831	O	ASN	P	96	32.618	27.278	17.933	1.00	87.46	P
ATOM	27832	N	SER	P	97	33.807	28.341	16.330	1.00	87.16	P
ATOM	27833	CA	SER	P	97	33.827	29.645	16.994	1.00	87.17	P
ATOM	27834	CB	SER	P	97	34.180	29.501	18.476	1.00	87.04	P
ATOM	27835	OG	SER	P	97	34.317	30.773	19.089	1.00	89.43	P
ATOM	27836	C	SER	P	97	34.847	30.559	16.330	1.00	87.22	P
ATOM	27837	O	SER	P	97	35.908	30.103	15.915	1.00	86.88	P
ATOM	27838	N	ARG	P	98	34.527	31.846	16.226	1.00	88.43	P
ATOM	27839	CA	ARG	P	98	35.446	32.798	15.612	1.00	87.96	P
ATOM	27840	CB	ARG	P	98	34.709	34.063	15.172	1.00	89.43	P
ATOM	27841	CG	ARG	P	98	33.669	33.800	14.092	1.00	93.83	P
ATOM	27842	CD	ARG	P	98	33.099	35.086	13.502	1.00	94.83	P
ATOM	27843	NE	ARG	P	98	31.961	34.816	12.627	1.00	94.86	P
ATOM	27844	CZ	ARG	P	98	30.801	34.315	13.044	1.00	96.02	P
ATOM	27845	NH1	ARG	P	98	30.616	34.031	14.326	1.00	96.86	P
ATOM	27846	NH2	ARG	P	98	29.821	34.088	12.181	1.00	99.06	P
ATOM	27847	C	ARG	P	98	36.524	33.143	16.612	1.00	87.39	P
ATOM	27848	O	ARG	P	98	37.425	33.932	16.332	1.00	87.13	P
ATOM	27849	N	THR	P	99	36.416	32.544	17.791	1.00	87.85	P

ATOM	27850	CA	THR	P	99	37.395	32.751	18.845	1.00	89.38	P
ATOM	27851	CB	THR	P	99	36.798	32.422	20.230	1.00	87.78	P
ATOM	27852	OG1	THR	P	99	35.709	33.312	20.503	1.00	85.74	P
ATOM	27853	CG2	THR	P	99	37.858	32.557	21.323	1.00	86.53	P
ATOM	27854	C	THR	P	99	38.590	31.833	18.572	1.00	91.72	P
ATOM	27855	O	THR	P	99	38.475	30.601	18.592	1.00	90.53	P
ATOM	27856	N	ASP	P	100	39.738	32.442	18.307	1.00	93.46	P
ATOM	27857	CA	ASP	P	100	40.951	31.689	18.024	1.00	97.16	P
ATOM	27858	CB	ASP	P	100	42.129	32.647	17.892	1.00	98.25	P
ATOM	27859	CG	ASP	P	100	42.001	33.550	16.698	1.00	100.26	P
ATOM	27860	OD1	ASP	P	100	42.219	33.068	15.564	1.00	96.67	P
ATOM	27861	OD2	ASP	P	100	41.671	34.739	16.900	1.00	104.44	P
ATOM	27862	C	ASP	P	100	41.297	30.609	19.048	1.00	97.68	P
ATOM	27863	O	ASP	P	100	41.813	30.903	20.127	1.00	96.94	P
ATOM	27864	N	LYS	P	101	41.002	29.361	18.700	1.00	99.33	P
ATOM	27865	CA	LYS	P	101	41.317	28.218	19.552	1.00	99.57	P
ATOM	27866	CB	LYS	P	101	40.187	27.184	19.524	1.00	97.40	P
ATOM	27867	CG	LYS	P	101	40.474	25.923	20.323	1.00	96.04	P
ATOM	27868	CD	LYS	P	101	39.334	24.915	20.217	1.00	97.55	P
ATOM	27869	CE	LYS	P	101	39.560	23.725	21.146	1.00	99.43	P
ATOM	27870	NZ	LYS	P	101	38.441	22.740	21.103	1.00	100.94	P
ATOM	27871	C	LYS	P	101	42.582	27.598	18.963	1.00	100.44	P
ATOM	27872	O	LYS	P	101	42.735	27.531	17.740	1.00	101.99	P
ATOM	27873	N	PRO	P	102	43.516	27.149	19.819	1.00	99.80	P
ATOM	27874	CD	PRO	P	102	43.545	27.234	21.294	1.00	99.17	P
ATOM	27875	CA	PRO	P	102	44.752	26.541	19.312	1.00	96.38	P
ATOM	27876	CB	PRO	P	102	45.714	26.729	20.473	1.00	96.17	P
ATOM	27877	CG	PRO	P	102	44.815	26.453	21.655	1.00	96.48	P
ATOM	27878	C	PRO	P	102	44.518	25.066	19.025	1.00	92.83	P
ATOM	27879	O	PRO	P	102	43.723	24.424	19.714	1.00	91.73	P
ATOM	27880	N	TRP	P	103	45.181	24.518	18.013	1.00	90.21	P
ATOM	27881	CA	TRP	P	103	45.003	23.097	17.762	1.00	87.46	P
ATOM	27882	CB	TRP	P	103	45.150	22.759	16.266	1.00	86.03	P
ATOM	27883	CG	TRP	P	103	46.512	22.859	15.719	1.00	88.45	P
ATOM	27884	CD2	TRP	P	103	47.071	22.066	14.664	1.00	88.91	P
ATOM	27885	CE2	TRP	P	103	48.395	22.524	14.454	1.00	89.23	P
ATOM	27886	CE3	TRP	P	103	46.586	21.018	13.873	1.00	87.11	P
ATOM	27887	CD1	TRP	P	103	47.483	23.737	16.096	1.00	90.99	P
ATOM	27888	NE1	TRP	P	103	48.618	23.543	15.343	1.00	93.09	P
ATOM	27889	CZ2	TRP	P	103	49.244	21.965	13.485	1.00	85.25	P
ATOM	27890	CZ3	TRP	P	103	47.434	20.462	12.907	1.00	86.97	P
ATOM	27891	CH2	TRP	P	103	48.748	20.941	12.725	1.00	83.78	P
ATOM	27892	C	TRP	P	103	46.035	22.391	18.633	1.00	83.70	P
ATOM	27893	O	TRP	P	103	47.184	22.817	18.722	1.00	79.48	P
ATOM	27894	N	PRO	P	104	45.614	21.324	19.327	1.00	84.36	P
ATOM	27895	CD	PRO	P	104	44.285	20.710	19.146	1.00	86.28	P
ATOM	27896	CA	PRO	P	104	46.440	20.510	20.226	1.00	85.55	P
ATOM	27897	CB	PRO	P	104	45.430	19.532	20.815	1.00	86.47	P
ATOM	27898	CG	PRO	P	104	44.506	19.299	19.651	1.00	88.34	P
ATOM	27899	C	PRO	P	104	47.600	19.788	19.537	1.00	84.62	P
ATOM	27900	O	PRO	P	104	47.463	18.646	19.109	1.00	85.13	P
ATOM	27901	N	VAL	P	105	48.741	20.450	19.433	1.00	83.08	P
ATOM	27902	CA	VAL	P	105	49.888	19.837	18.794	1.00	84.05	P
ATOM	27903	CB	VAL	P	105	50.137	20.434	17.400	1.00	82.97	P
ATOM	27904	CG1	VAL	P	105	51.458	19.926	16.841	1.00	82.82	P
ATOM	27905	CG2	VAL	P	105	49.001	20.045	16.479	1.00	81.66	P
ATOM	27906	C	VAL	P	105	51.129	20.013	19.644	1.00	85.51	P
ATOM	27907	O	VAL	P	105	51.779	21.062	19.614	1.00	87.25	P

ATOM	27908	N	ALA	P	106	51.449	18.975	20.409	1.00	82.77	P
ATOM	27909	CA	ALA	P	106	52.616	19.008	21.267	1.00	78.54	P
ATOM	27910	CB	ALA	P	106	52.196	18.851	22.717	1.00	75.97	P
ATOM	27911	C	ALA	P	106	53.606	17.916	20.869	1.00	77.15	P
ATOM	27912	O	ALA	P	106	53.246	16.739	20.749	1.00	73.35	P
ATOM	27913	N	LEU	P	107	54.851	18.336	20.654	1.00	75.78	P
ATOM	27914	CA	LEU	P	107	55.944	17.451	20.276	1.00	72.57	P
ATOM	27915	CB	LEU	P	107	56.908	18.179	19.351	1.00	67.48	P
ATOM	27916	CG	LEU	P	107	56.924	17.721	17.905	1.00	65.80	P
ATOM	27917	CD1	LEU	P	107	55.518	17.762	17.346	1.00	65.45	P
ATOM	27918	CD2	LEU	P	107	57.864	18.610	17.111	1.00	65.69	P
ATOM	27919	C	LEU	P	107	56.709	16.992	21.501	1.00	72.77	P
ATOM	27920	O	LEU	P	107	57.175	17.812	22.291	1.00	71.32	P
ATOM	27921	N	TYR	P	108	56.839	15.680	21.653	1.00	74.77	P
ATOM	27922	CA	TYR	P	108	57.568	15.113	22.778	1.00	79.40	P
ATOM	27923	CB	TYR	P	108	56.632	14.259	23.635	1.00	81.95	P
ATOM	27924	CG	TYR	P	108	55.573	15.077	24.344	1.00	90.28	P
ATOM	27925	CD1	TYR	P	108	54.554	15.703	23.627	1.00	93.15	P
ATOM	27926	CE1	TYR	P	108	53.588	16.475	24.274	1.00	94.79	P
ATOM	27927	CD2	TYR	P	108	55.600	15.245	25.731	1.00	91.57	P
ATOM	27928	CE2	TYR	P	108	54.637	16.017	26.387	1.00	92.11	P
ATOM	27929	CZ	TYR	P	108	53.633	16.628	25.650	1.00	93.67	P
ATOM	27930	OH	TYR	P	108	52.664	17.383	26.275	1.00	97.16	P
ATOM	27931	C	TYR	P	108	58.763	14.293	22.285	1.00	80.70	P
ATOM	27932	O	TYR	P	108	58.619	13.151	21.844	1.00	80.20	P
ATOM	27933	N	LEU	P	109	59.946	14.896	22.370	1.00	80.98	P
ATOM	27934	CA	LEU	P	109	61.178	14.266	21.915	1.00	83.09	P
ATOM	27935	CB	LEU	P	109	61.870	15.189	20.915	1.00	75.45	P
ATOM	27936	CG	LEU	P	109	60.899	15.826	19.931	1.00	70.25	P
ATOM	27937	CD1	LEU	P	109	61.651	16.788	19.035	1.00	69.64	P
ATOM	27938	CD2	LEU	P	109	60.196	14.748	19.126	1.00	68.19	P
ATOM	27939	C	LEU	P	109	62.144	13.938	23.054	1.00	85.98	P
ATOM	27940	O	LEU	P	109	62.380	14.758	23.939	1.00	86.88	P
ATOM	27941	N	THR	P	110	62.704	12.734	23.024	1.00	87.82	P
ATOM	27942	CA	THR	P	110	63.652	12.316	24.047	1.00	89.95	P
ATOM	27943	CB	THR	P	110	63.245	10.984	24.677	1.00	88.98	P
ATOM	27944	OG1	THR	P	110	61.895	11.078	25.144	1.00	90.98	P
ATOM	27945	CG2	THR	P	110	64.161	10.648	25.851	1.00	89.83	P
ATOM	27946	C	THR	P	110	65.011	12.148	23.393	1.00	92.10	P
ATOM	27947	O	THR	P	110	65.096	11.698	22.250	1.00	94.74	P
ATOM	27948	N	PRO	P	111	66.092	12.525	24.099	1.00	91.83	P
ATOM	27949	CD	PRO	P	111	66.148	13.365	25.307	1.00	90.99	P
ATOM	27950	CA	PRO	P	111	67.428	12.381	23.507	1.00	90.04	P
ATOM	27951	CB	PRO	P	111	68.285	13.353	24.325	1.00	90.40	P
ATOM	27952	CG	PRO	P	111	67.271	14.297	24.964	1.00	90.43	P
ATOM	27953	C	PRO	P	111	67.928	10.939	23.611	1.00	87.84	P
ATOM	27954	O	PRO	P	111	67.729	10.268	24.632	1.00	85.09	P
ATOM	27955	N	VAL	P	112	68.562	10.466	22.543	1.00	86.98	P
ATOM	27956	CA	VAL	P	112	69.102	9.111	22.514	1.00	84.91	P
ATOM	27957	CB	VAL	P	112	69.157	8.557	21.080	1.00	79.07	P
ATOM	27958	CG1	VAL	P	112	67.761	8.311	20.565	1.00	72.42	P
ATOM	27959	CG2	VAL	P	112	69.890	9.538	20.176	1.00	78.09	P
ATOM	27960	C	VAL	P	112	70.516	9.130	23.073	1.00	86.78	P
ATOM	27961	O	VAL	P	112	71.247	10.106	22.889	1.00	88.97	P
ATOM	27962	N	SER	P	113	70.892	8.060	23.766	1.00	87.74	P
ATOM	27963	CA	SER	P	113	72.231	7.946	24.343	1.00	88.85	P
ATOM	27964	CB	SER	P	113	72.519	6.477	24.674	1.00	89.95	P
ATOM	27965	OG	SER	P	113	73.826	6.309	25.186	1.00	96.22	P

ATOM	27966	C	SER	P	113	73.292	8.486	23.371	1.00	87.39	P
ATOM	27967	O	SER	P	113	74.287	9.067	23.787	1.00	84.94	P
ATOM	27968	N	SER	P	114	73.042	8.304	22.076	1.00	88.94	P
ATOM	27969	CA	SER	P	114	73.933	8.740	21.002	1.00	90.89	P
ATOM	27970	CB	SER	P	114	73.331	8.354	19.644	1.00	88.50	P
ATOM	27971	OG	SER	P	114	74.120	8.829	18.568	1.00	82.30	P
ATOM	27972	C	SER	P	114	74.263	10.229	20.988	1.00	95.67	P
ATOM	27973	O	SER	P	114	75.363	10.617	20.595	1.00	96.27	P
ATOM	27974	N	ALA	P	115	73.311	11.064	21.394	1.00101.04	P	P
ATOM	27975	CA	ALA	P	115	73.533	12.510	21.417	1.00105.73	P	P
ATOM	27976	CB	ALA	P	115	72.294	13.219	21.958	1.00103.55	P	P
ATOM	27977	C	ALA	P	115	74.758	12.837	22.280	1.00109.50	P	P
ATOM	27978	O	ALA	P	115	75.360	11.937	22.874	1.00111.00	P	P
ATOM	27979	N	GLY	P	116	75.130	14.115	22.346	1.00111.43	P	P
ATOM	27980	CA	GLY	P	116	76.287	14.503	23.141	1.00112.65	P	P
ATOM	27981	C	GLY	P	116	76.297	15.938	23.646	1.00113.65	P	P
ATOM	27982	O	GLY	P	116	76.376	16.180	24.854	1.00112.16	P	P
ATOM	27983	N	GLY	P	117	76.235	16.893	22.722	1.00114.95	P	P
ATOM	27984	CA	GLY	P	117	76.237	18.295	23.099	1.00115.46	P	P
ATOM	27985	C	GLY	P	117	75.171	19.080	22.361	1.00115.58	P	P
ATOM	27986	O	GLY	P	117	73.998	19.050	22.733	1.00114.62	P	P
ATOM	27987	N	VAL	P	118	75.578	19.781	21.307	1.00116.12	P	P
ATOM	27988	CA	VAL	P	118	74.648	20.575	20.512	1.00116.99	P	P
ATOM	27989	CB	VAL	P	118	75.394	21.544	19.562	1.00117.05	P	P
ATOM	27990	CG1	VAL	P	118	74.395	22.319	18.715	1.00116.61	P	P
ATOM	27991	CG2	VAL	P	118	76.255	22.502	20.363	1.00117.74	P	P
ATOM	27992	C	VAL	P	118	73.752	19.674	19.670	1.00118.10	P	P
ATOM	27993	O	VAL	P	118	74.112	19.295	18.555	1.00119.85	P	P
ATOM	27994	N	ALA	P	119	72.587	19.330	20.210	1.00118.14	P	P
ATOM	27995	CA	ALA	P	119	71.635	18.485	19.497	1.00117.59	P	P
ATOM	27996	CB	ALA	P	119	70.606	17.914	20.471	1.00115.17	P	P
ATOM	27997	C	ALA	P	119	70.936	19.312	18.417	1.00118.22	P	P
ATOM	27998	O	ALA	P	119	70.836	18.891	17.264	1.00118.70	P	P
ATOM	27999	N	ILE	P	120	70.465	20.496	18.799	1.00118.79	P	P
ATOM	28000	CA	ILE	P	120	69.772	21.393	17.877	1.00117.49	P	P
ATOM	28001	CB	ILE	P	120	68.305	21.625	18.320	1.00116.58	P	P
ATOM	28002	CG2	ILE	P	120	67.635	22.634	17.402	1.00116.43	P	P
ATOM	28003	CG1	ILE	P	120	67.538	20.304	18.304	1.00113.17	P	P
ATOM	28004	CD1	ILE	P	120	66.092	20.438	18.711	1.00113.83	P	P
ATOM	28005	C	ILE	P	120	70.473	22.745	17.812	1.00115.80	P	P
ATOM	28006	O	ILE	P	120	70.940	23.258	18.828	1.00115.18	P	P
ATOM	28007	N	LYS	P	121	70.543	23.317	16.615	1.00114.57	P	P
ATOM	28008	CA	LYS	P	121	71.177	24.616	16.426	1.00114.54	P	P
ATOM	28009	CB	LYS	P	121	71.509	24.829	14.944	1.00114.80	P	P
ATOM	28010	CG	LYS	P	121	72.929	24.403	14.555	1.00114.42	P	P
ATOM	28011	CD	LYS	P	121	73.252	22.976	15.005	1.00115.30	P	P
ATOM	28012	CE	LYS	P	121	74.757	22.674	14.950	1.00114.61	P	P
ATOM	28013	NZ	LYS	P	121	75.335	22.749	13.578	1.00113.26	P	P
ATOM	28014	C	LYS	P	121	70.280	25.736	16.945	1.00113.98	P	P
ATOM	28015	O	LYS	P	121	69.245	25.476	17.555	1.00114.27	P	P
ATOM	28016	N	ALA	P	122	70.676	26.981	16.708	1.00112.93	P	P
ATOM	28017	CA	ALA	P	122	69.899	28.119	17.181	1.00112.62	P	P
ATOM	28018	CB	ALA	P	122	70.813	29.103	17.900	1.00112.31	P	P
ATOM	28019	C	ALA	P	122	69.147	28.829	16.062	1.00112.83	P	P
ATOM	28020	O	ALA	P	122	68.736	29.980	16.215	1.00113.29	P	P
ATOM	28021	N	GLY	P	123	68.963	28.144	14.939	1.00112.14	P	P
ATOM	28022	CA	GLY	P	123	68.257	28.747	13.821	1.00111.43	P	P
ATOM	28023	C	GLY	P	123	68.047	27.787	12.668	1.00110.54	P	P

ATOM	28024	O	GLY	P	123	68.160	28.161	11.495	1.00110.46	P
ATOM	28025	N	SER	P	124	67.740	26.540	13.010	1.00109.24	P
ATOM	28026	CA	SER	P	124	67.509	25.495	12.019	1.00104.67	P
ATOM	28027	CB	SER	P	124	68.417	24.288	12.299	1.00103.93	P
ATOM	28028	OG	SER	P	124	68.244	23.796	13.620	1.00101.16	P
ATOM	28029	C	SER	P	124	66.052	25.054	12.037	1.00100.42	P
ATOM	28030	O	SER	P	124	65.245	25.564	12.818	1.00 97.87	P
ATOM	28031	N	LEU	P	125	65.727	24.112	11.157	1.00 97.58	P
ATOM	28032	CA	LEU	P	125	64.380	23.572	11.064	1.00 94.03	P
ATOM	28033	CB	LEU	P	125	64.067	23.189	9.617	1.00 92.64	P
ATOM	28034	CG	LEU	P	125	62.684	22.595	9.347	1.00 94.88	P
ATOM	28035	CD1	LEU	P	125	61.586	23.569	9.758	1.00 93.99	P
ATOM	28036	CD2	LEU	P	125	62.580	22.274	7.870	1.00 93.73	P
ATOM	28037	C	LEU	P	125	64.269	22.343	11.963	1.00 91.24	P
ATOM	28038	O	LEU	P	125	65.133	21.466	11.944	1.00 92.23	P
ATOM	28039	N	ILE	P	126	63.216	22.300	12.770	1.00 87.30	P
ATOM	28040	CA	ILE	P	126	62.986	21.177	13.666	1.00 84.92	P
ATOM	28041	CB	ILE	P	126	62.228	21.597	14.939	1.00 83.35	P
ATOM	28042	CG2	ILE	P	126	61.940	20.381	15.787	1.00 85.17	P
ATOM	28043	CG1	ILE	P	126	63.035	22.594	15.753	1.00 82.12	P
ATOM	28044	CD1	ILE	P	126	62.322	23.004	17.029	1.00 82.40	P
ATOM	28045	C	ILE	P	126	62.103	20.158	12.957	1.00 83.27	P
ATOM	28046	O	ILE	P	126	62.496	19.016	12.722	1.00 82.98	P
ATOM	28047	N	ALA	P	127	60.900	20.601	12.618	1.00 81.10	P
ATOM	28048	CA	ALA	P	127	59.922	19.752	11.975	1.00 79.20	P
ATOM	28049	CB	ALA	P	127	58.980	19.189	13.030	1.00 80.14	P
ATOM	28050	C	ALA	P	127	59.125	20.496	10.918	1.00 78.62	P
ATOM	28051	O	ALA	P	127	59.403	21.656	10.606	1.00 80.40	P
ATOM	28052	N	VAL	P	128	58.131	19.803	10.372	1.00 76.03	P
ATOM	28053	CA	VAL	P	128	57.248	20.354	9.360	1.00 73.15	P
ATOM	28054	CB	VAL	P	128	57.778	20.054	7.950	1.00 70.37	P
ATOM	28055	CG1	VAL	P	128	56.760	20.468	6.907	1.00 70.84	P
ATOM	28056	CG2	VAL	P	128	59.074	20.799	7.721	1.00 65.02	P
ATOM	28057	C	VAL	P	128	55.873	19.722	9.548	1.00 74.03	P
ATOM	28058	O	VAL	P	128	55.519	18.770	8.852	1.00 77.08	P
ATOM	28059	N	LEU	P	129	55.114	20.257	10.505	1.00 72.71	P
ATOM	28060	CA	LEU	P	129	53.769	19.772	10.831	1.00 71.97	P
ATOM	28061	CB	LEU	P	129	53.372	20.238	12.231	1.00 69.17	P
ATOM	28062	CG	LEU	P	129	54.375	19.991	13.353	1.00 67.50	P
ATOM	28063	CD1	LEU	P	129	53.822	20.543	14.652	1.00 56.77	P
ATOM	28064	CD2	LEU	P	129	54.654	18.500	13.464	1.00 65.02	P
ATOM	28065	C	LEU	P	129	52.721	20.277	9.847	1.00 72.94	P
ATOM	28066	O	LEU	P	129	52.583	21.485	9.660	1.00 73.90	P
ATOM	28067	N	ILE	P	130	51.968	19.366	9.234	1.00 72.58	P
ATOM	28068	CA	ILE	P	130	50.946	19.783	8.283	1.00 71.93	P
ATOM	28069	CB	ILE	P	130	50.983	18.951	6.987	1.00 70.55	P
ATOM	28070	CG2	ILE	P	130	49.807	19.338	6.105	1.00 69.11	P
ATOM	28071	CG1	ILE	P	130	52.295	19.186	6.235	1.00 69.42	P
ATOM	28072	CD1	ILE	P	130	52.350	18.498	4.880	1.00 69.25	P
ATOM	28073	C	ILE	P	130	49.532	19.710	8.845	1.00 73.13	P
ATOM	28074	O	ILE	P	130	49.061	18.645	9.255	1.00 72.70	P
ATOM	28075	N	LEU	P	131	48.856	20.854	8.848	1.00 74.16	P
ATOM	28076	CA	LEU	P	131	47.489	20.932	9.338	1.00 74.14	P
ATOM	28077	CB	LEU	P	131	47.229	22.305	9.956	1.00 73.63	P
ATOM	28078	CG	LEU	P	131	45.872	22.519	10.636	1.00 77.32	P
ATOM	28079	CD1	LEU	P	131	45.947	23.768	11.502	1.00 75.08	P
ATOM	28080	CD2	LEU	P	131	44.748	22.637	9.600	1.00 77.44	P
ATOM	28081	C	LEU	P	131	46.543	20.704	8.171	1.00 75.80	P

ATOM	28082	O	LEU	P	131	46.640	21.376	7.147	1.00	75.63	P
ATOM	28083	N	ARG	P	132	45.632	19.751	8.329	1.00	78.80	P
ATOM	28084	CA	ARG	P	132	44.657	19.428	7.291	1.00	79.80	P
ATOM	28085	CB	ARG	P	132	44.562	17.918	7.119	1.00	82.79	P
ATOM	28086	CG	ARG	P	132	43.442	17.455	6.217	1.00	83.71	P
ATOM	28087	CD	ARG	P	132	43.952	17.079	4.844	1.00	86.99	P
ATOM	28088	NE	ARG	P	132	43.147	16.008	4.264	1.00	88.24	P
ATOM	28089	CZ	ARG	P	132	43.316	15.517	3.042	1.00	90.40	P
ATOM	28090	NH1	ARG	P	132	44.268	15.996	2.244	1.00	88.77	P
ATOM	28091	NH2	ARG	P	132	42.529	14.538	2.619	1.00	92.07	P
ATOM	28092	C	ARG	P	132	43.308	19.964	7.726	1.00	79.55	P
ATOM	28093	O	ARG	P	132	42.850	19.668	8.832	1.00	78.54	P
ATOM	28094	N	GLN	P	133	42.667	20.738	6.855	1.00	79.89	P
ATOM	28095	CA	GLN	P	133	41.372	21.324	7.188	1.00	79.03	P
ATOM	28096	CB	GLN	P	133	41.509	22.846	7.328	1.00	79.12	P
ATOM	28097	CG	GLN	P	133	40.275	23.540	7.890	1.00	80.08	P
ATOM	28098	CD	GLN	P	133	39.557	24.393	6.863	1.00	82.89	P
ATOM	28099	OE1	GLN	P	133	40.146	25.301	6.270	1.00	85.24	P
ATOM	28100	NE2	GLN	P	133	38.276	24.108	6.648	1.00	80.92	P
ATOM	28101	C	GLN	P	133	40.258	21.004	6.200	1.00	77.48	P
ATOM	28102	O	GLN	P	133	40.428	21.131	4.983	1.00	77.56	P
ATOM	28103	N	THR	P	134	39.122	20.582	6.750	1.00	74.93	P
ATOM	28104	CA	THR	P	134	37.931	20.253	5.976	1.00	73.24	P
ATOM	28105	CB	THR	P	134	37.777	18.746	5.769	1.00	71.11	P
ATOM	28106	OG1	THR	P	134	37.630	18.102	7.043	1.00	71.20	P
ATOM	28107	CG2	THR	P	134	38.979	18.188	5.033	1.00	65.44	P
ATOM	28108	C	THR	P	134	36.744	20.738	6.791	1.00	75.89	P
ATOM	28109	O	THR	P	134	36.925	21.484	7.751	1.00	76.06	P
ATOM	28110	N	ASN	P	135	35.537	20.318	6.413	1.00	78.82	P
ATOM	28111	CA	ASN	P	135	34.317	20.712	7.121	1.00	82.17	P
ATOM	28112	CB	ASN	P	135	34.049	22.208	6.955	1.00	83.11	P
ATOM	28113	CG	ASN	P	135	33.882	22.611	5.504	1.00	85.62	P
ATOM	28114	OD1	ASN	P	135	33.122	21.990	4.759	1.00	88.41	P
ATOM	28115	ND2	ASN	P	135	34.587	23.660	5.096	1.00	84.33	P
ATOM	28116	C	ASN	P	135	33.120	19.934	6.606	1.00	85.04	P
ATOM	28117	O	ASN	P	135	33.203	19.265	5.575	1.00	87.02	P
ATOM	28118	N	ASN	P	136	32.001	20.041	7.317	1.00	86.51	P
ATOM	28119	CA	ASN	P	136	30.786	19.326	6.937	1.00	90.08	P
ATOM	28120	CB	ASN	P	136	30.020	18.875	8.195	1.00	87.43	P
ATOM	28121	CG	ASN	P	136	29.520	20.043	9.044	1.00	85.88	P
ATOM	28122	OD1	ASN	P	136	28.797	19.844	10.028	1.00	81.80	P
ATOM	28123	ND2	ASN	P	136	29.904	21.262	8.671	1.00	83.86	P
ATOM	28124	C	ASN	P	136	29.859	20.146	6.044	1.00	94.02	P
ATOM	28125	O	ASN	P	136	28.640	19.976	6.088	1.00	94.91	P
ATOM	28126	N	TYR	P	137	30.432	21.014	5.215	1.00	98.09	P
ATOM	28127	CA	TYR	P	137	29.624	21.868	4.350	1.00	100.33	P
ATOM	28128	CB	TYR	P	137	29.868	23.337	4.719	1.00	103.11	P
ATOM	28129	CG	TYR	P	137	28.896	24.314	4.103	1.00	104.86	P
ATOM	28130	CD1	TYR	P	137	27.520	24.161	4.273	1.00	106.54	P
ATOM	28131	CE1	TYR	P	137	26.618	25.070	3.723	1.00	108.08	P
ATOM	28132	CD2	TYR	P	137	29.351	25.405	3.364	1.00	105.09	P
ATOM	28133	CE2	TYR	P	137	28.459	26.322	2.810	1.00	108.13	P
ATOM	28134	CZ	TYR	P	137	27.094	26.147	2.992	1.00	108.98	P
ATOM	28135	OH	TYR	P	137	26.210	27.040	2.429	1.00	111.16	P
ATOM	28136	C	TYR	P	137	29.862	21.656	2.858	1.00	99.83	P
ATOM	28137	O	TYR	P	137	28.914	21.479	2.098	1.00	98.94	P
ATOM	28138	N	ASN	P	138	31.122	21.671	2.438	1.00	100.70	P
ATOM	28139	CA	ASN	P	138	31.441	21.487	1.026	1.00	102.61	P

ATOM	28140	CB	ASN	P	138	31.535	22.842	0.328	1.00105.26	P
ATOM	28141	CG	ASN	P	138	32.497	23.779	1.018	1.00108.18	P
ATOM	28142	OD1	ASN	P	138	32.194	24.331	2.077	1.00110.81	P
ATOM	28143	ND2	ASN	P	138	33.675	23.953	0.431	1.00108.20	P
ATOM	28144	C	ASN	P	138	32.729	20.712	0.789	1.00102.83	P
ATOM	28145	O	ASN	P	138	33.271	20.092	1.701	1.00103.43	P
ATOM	28146	N	SER	P	139	33.212	20.769	-0.450	1.00103.00	P
ATOM	28147	CA	SER	P	139	34.426	20.071	-0.864	1.00102.90	P
ATOM	28148	CB	SER	P	139	34.456	19.967	-2.393	1.00102.12	P
ATOM	28149	OG	SER	P	139	34.305	21.244	-2.996	1.00102.35	P
ATOM	28150	C	SER	P	139	35.727	20.706	-0.373	1.00103.07	P
ATOM	28151	O	SER	P	139	36.799	20.439	-0.929	1.00102.99	P
ATOM	28152	N	ASP	P	140	35.637	21.530	0.670	1.00102.02	P
ATOM	28153	CA	ASP	P	140	36.816	22.199	1.219	1.00101.90	P
ATOM	28154	CB	ASP	P	140	36.390	23.345	2.141	1.00104.88	P
ATOM	28155	CG	ASP	P	140	36.464	24.701	1.455	1.00108.10	P
ATOM	28156	OD1	ASP	P	140	36.108	25.719	2.088	1.00109.25	P
ATOM	28157	OD2	ASP	P	140	36.888	24.750	0.280	1.00109.58	P
ATOM	28158	C	ASP	P	140	37.800	21.276	1.945	1.00 99.67	P
ATOM	28159	O	ASP	P	140	37.461	20.622	2.933	1.00 97.92	P
ATOM	28160	N	ASP	P	141	39.029	21.250	1.438	1.00 97.90	P
ATOM	28161	CA	ASP	P	141	40.098	20.422	1.982	1.00 96.42	P
ATOM	28162	CB	ASP	P	141	40.111	19.077	1.250	1.00 94.86	P
ATOM	28163	CG	ASP	P	141	41.076	18.082	1.858	1.00 91.89	P
ATOM	28164	OD1	ASP	P	141	42.286	18.387	1.954	1.00 89.93	P
ATOM	28165	OD2	ASP	P	141	40.616	16.986	2.232	1.00 90.33	P
ATOM	28166	C	ASP	P	141	41.422	21.155	1.759	1.00 96.00	P
ATOM	28167	O	ASP	P	141	41.971	21.139	0.654	1.00 95.61	P
ATOM	28168	N	PHE	P	142	41.938	21.792	2.805	1.00 95.25	P
ATOM	28169	CA	PHE	P	142	43.183	22.537	2.678	1.00 95.81	P
ATOM	28170	CB	PHE	P	142	42.915	24.011	2.959	1.00 96.36	P
ATOM	28171	CG	PHE	P	142	41.820	24.592	2.112	1.00 97.71	P
ATOM	28172	CD1	PHE	P	142	40.599	24.945	2.676	1.00 96.50	P
ATOM	28173	CD2	PHE	P	142	42.008	24.780	0.743	1.00 96.68	P
ATOM	28174	CE1	PHE	P	142	39.578	25.480	1.888	1.00 96.83	P
ATOM	28175	CE2	PHE	P	142	40.997	25.312	-0.050	1.00 95.56	P
ATOM	28176	CZ	PHE	P	142	39.779	25.664	0.524	1.00 95.48	P
ATOM	28177	C	PHE	P	142	44.302	22.032	3.579	1.00 96.95	P
ATOM	28178	O	PHE	P	142	44.060	21.268	4.515	1.00 98.35	P
ATOM	28179	N	GLN	P	143	45.529	22.465	3.289	1.00 97.47	P
ATOM	28180	CA	GLN	P	143	46.694	22.057	4.070	1.00 96.44	P
ATOM	28181	CB	GLN	P	143	47.657	21.235	3.207	1.00 97.69	P
ATOM	28182	CG	GLN	P	143	47.018	20.044	2.504	1.00106.30	P
ATOM	28183	CD	GLN	P	143	48.044	19.016	2.030	1.00108.74	P
ATOM	28184	OE1	GLN	P	143	49.085	19.370	1.467	1.00108.58	P
ATOM	28185	NE2	GLN	P	143	47.745	17.733	2.249	1.00108.16	P
ATOM	28186	C	GLN	P	143	47.468	23.218	4.694	1.00 94.76	P
ATOM	28187	O	GLN	P	143	48.492	23.645	4.158	1.00 94.12	P
ATOM	28188	N	PHE	P	144	46.977	23.724	5.824	1.00 93.26	P
ATOM	28189	CA	PHE	P	144	47.640	24.813	6.542	1.00 91.00	P
ATOM	28190	CB	PHE	P	144	46.832	25.216	7.783	1.00 89.08	P
ATOM	28191	CG	PHE	P	144	45.539	25.926	7.476	1.00 90.32	P
ATOM	28192	CD1	PHE	P	144	44.551	25.310	6.711	1.00 89.39	P
ATOM	28193	CD2	PHE	P	144	45.309	27.217	7.956	1.00 87.89	P
ATOM	28194	CE1	PHE	P	144	43.355	25.968	6.425	1.00 84.52	P
ATOM	28195	CE2	PHE	P	144	44.122	27.881	7.677	1.00 84.44	P
ATOM	28196	CZ	PHE	P	144	43.143	27.256	6.908	1.00 85.36	P
ATOM	28197	C	PHE	P	144	49.012	24.307	6.992	1.00 91.03	P

ATOM	28198	O	PHE	P	144	49.121	23.624	8.011	1.00	91.93	P
ATOM	28199	N	VAL	P	145	50.053	24.649	6.240	1.00	89.62	P
ATOM	28200	CA	VAL	P	145	51.411	24.210	6.553	1.00	88.38	P
ATOM	28201	CB	VAL	P	145	52.277	24.213	5.294	1.00	85.13	P
ATOM	28202	CG1	VAL	P	145	53.543	23.417	5.536	1.00	83.10	P
ATOM	28203	CG2	VAL	P	145	51.487	23.650	4.129	1.00	86.32	P
ATOM	28204	C	VAL	P	145	52.131	25.033	7.623	1.00	90.19	P
ATOM	28205	O	VAL	P	145	51.796	26.190	7.871	1.00	91.20	P
ATOM	28206	N	TRP	P	146	53.125	24.420	8.259	1.00	91.67	P
ATOM	28207	CA	TRP	P	146	53.902	25.086	9.297	1.00	93.41	P
ATOM	28208	CB	TRP	P	146	53.289	24.846	10.683	1.00	94.40	P
ATOM	28209	CG	TRP	P	146	51.812	25.099	10.774	1.00	96.93	P
ATOM	28210	CD2	TRP	P	146	51.171	26.321	11.161	1.00	97.53	P
ATOM	28211	CE2	TRP	P	146	49.779	26.100	11.095	1.00	98.65	P
ATOM	28212	CE3	TRP	P	146	51.638	27.582	11.557	1.00	96.46	P
ATOM	28213	CD1	TRP	P	146	50.810	24.212	10.498	1.00	97.57	P
ATOM	28214	NE1	TRP	P	146	49.587	24.805	10.689	1.00	98.41	P
ATOM	28215	CZ2	TRP	P	146	48.846	27.094	11.412	1.00	98.63	P
ATOM	28216	CZ3	TRP	P	146	50.707	28.571	11.873	1.00	95.90	P
ATOM	28217	CH2	TRP	P	146	49.328	28.319	11.797	1.00	96.41	P
ATOM	28218	C	TRP	P	146	55.339	24.572	9.305	1.00	94.60	P
ATOM	28219	O	TRP	P	146	55.596	23.405	9.004	1.00	95.98	P
ATOM	28220	N	ASN	P	147	56.271	25.453	9.653	1.00	94.20	P
ATOM	28221	CA	ASN	P	147	57.684	25.100	9.721	1.00	91.79	P
ATOM	28222	CB	ASN	P	147	58.460	25.763	8.581	1.00	89.10	P
ATOM	28223	CG	ASN	P	147	57.988	25.301	7.219	1.00	90.53	P
ATOM	28224	OD1	ASN	P	147	57.891	24.103	6.961	1.00	89.64	P
ATOM	28225	ND2	ASN	P	147	57.694	26.249	6.337	1.00	91.31	P
ATOM	28226	C	ASN	P	147	58.238	25.546	11.062	1.00	89.58	P
ATOM	28227	O	ASN	P	147	58.338	26.735	11.346	1.00	89.65	P
ATOM	28228	N	ILE	P	148	58.589	24.576	11.891	1.00	88.25	P
ATOM	28229	CA	ILE	P	148	59.117	24.863	13.209	1.00	88.86	P
ATOM	28230	CB	ILE	P	148	58.768	23.728	14.180	1.00	88.30	P
ATOM	28231	CG2	ILE	P	148	59.233	24.081	15.585	1.00	89.87	P
ATOM	28232	CG1	ILE	P	148	57.260	23.456	14.136	1.00	88.68	P
ATOM	28233	CD1	ILE	P	148	56.388	24.615	14.590	1.00	89.31	P
ATOM	28234	C	ILE	P	148	60.633	25.040	13.191	1.00	90.93	P
ATOM	28235	O	ILE	P	148	61.353	24.199	12.649	1.00	92.55	P
ATOM	28236	N	TYR	P	149	61.101	26.143	13.779	1.00	90.54	P
ATOM	28237	CA	TYR	P	149	62.529	26.460	13.874	1.00	88.94	P
ATOM	28238	CB	TYR	P	149	62.886	27.676	13.013	1.00	82.58	P
ATOM	28239	CG	TYR	P	149	62.818	27.462	11.518	1.00	77.63	P
ATOM	28240	CD1	TYR	P	149	61.598	27.354	10.860	1.00	76.38	P
ATOM	28241	CE1	TYR	P	149	61.536	27.201	9.475	1.00	77.82	P
ATOM	28242	CD2	TYR	P	149	63.979	27.405	10.756	1.00	79.54	P
ATOM	28243	CE2	TYR	P	149	63.931	27.250	9.371	1.00	79.19	P
ATOM	28244	CZ	TYR	P	149	62.709	27.152	8.735	1.00	77.59	P
ATOM	28245	OH	TYR	P	149	62.667	27.022	7.361	1.00	74.25	P
ATOM	28246	C	TYR	P	149	62.886	26.773	15.325	1.00	91.95	P
ATOM	28247	O	TYR	P	149	62.047	27.249	16.087	1.00	92.98	P
ATOM	28248	N	ALA	P	150	64.129	26.503	15.709	1.00	96.52	P
ATOM	28249	CA	ALA	P	150	64.576	26.782	17.073	1.00	101.09	P
ATOM	28250	CB	ALA	P	150	65.163	25.514	17.712	1.00	97.07	P
ATOM	28251	C	ALA	P	150	65.623	27.900	17.043	1.00	103.63	P
ATOM	28252	O	ALA	P	150	66.701	27.739	16.467	1.00	104.14	P
ATOM	28253	N	ASN	P	151	65.297	29.035	17.658	1.00	105.33	P
ATOM	28254	CA	ASN	P	151	66.212	30.172	17.684	1.00	107.35	P
ATOM	28255	CB	ASN	P	151	65.464	31.458	18.057	1.00	110.43	P

ATOM	28256	CG	ASN	P	151	64.415	31.851	17.030	1.00112.28	P
ATOM	28257	OD1	ASN	P	151	64.717	32.041	15.849	1.00113.72	P
ATOM	28258	ND2	ASN	P	151	63.174	31.987	17.482	1.00110.38	P
ATOM	28259	C	ASN	P	151	67.366	29.974	18.662	1.00107.03	P
ATOM	28260	O	ASN	P	151	68.250	30.825	18.766	1.00106.72	P
ATOM	28261	N	ASN	P	152	67.361	28.852	19.374	1.00106.73	P
ATOM	28262	CA	ASN	P	152	68.407	28.569	20.349	1.00106.32	P
ATOM	28263	CB	ASN	P	152	67.848	28.726	21.761	1.00103.85	P
ATOM	28264	CG	ASN	P	152	66.700	27.784	22.036	1.00101.36	P
ATOM	28265	OD1	ASN	P	152	65.695	27.787	21.321	1.00 99.59	P
ATOM	28266	ND2	ASN	P	152	66.840	26.968	23.074	1.00 99.78	P
ATOM	28267	C	ASN	P	152	68.990	27.170	20.192	1.00106.93	P
ATOM	28268	O	ASN	P	152	68.287	26.235	19.830	1.00106.73	P
ATOM	28269	N	ASP	P	153	70.283	27.038	20.468	1.00109.39	P
ATOM	28270	CA	ASP	P	153	70.961	25.751	20.372	1.00111.65	P
ATOM	28271	CB	ASP	P	153	72.485	25.924	20.402	1.00112.84	P
ATOM	28272	CG	ASP	P	153	73.000	26.876	19.343	1.00115.28	P
ATOM	28273	OD1	ASP	P	153	72.726	26.654	18.143	1.00115.03	P
ATOM	28274	OD2	ASP	P	153	73.696	27.845	19.718	1.00116.16	P
ATOM	28275	C	ASP	P	153	70.577	24.881	21.562	1.00113.15	P
ATOM	28276	O	ASP	P	153	70.790	25.273	22.709	1.00113.22	P
ATOM	28277	N	VAL	P	154	70.006	23.708	21.310	1.00114.47	P
ATOM	28278	CA	VAL	P	154	69.673	22.829	22.422	1.00115.75	P
ATOM	28279	CB	VAL	P	154	68.545	21.834	22.085	1.00115.46	P
ATOM	28280	CG1	VAL	P	154	68.196	21.011	23.326	1.00112.52	P
ATOM	28281	CG2	VAL	P	154	67.322	22.581	21.592	1.00117.42	P
ATOM	28282	C	VAL	P	154	70.949	22.052	22.702	1.00116.40	P
ATOM	28283	O	VAL	P	154	71.827	21.962	21.841	1.00116.02	P
ATOM	28284	N	VAL	P	155	71.061	21.504	23.904	1.00117.15	P
ATOM	28285	CA	VAL	P	155	72.246	20.752	24.272	1.00117.98	P
ATOM	28286	CB	VAL	P	155	73.237	21.629	25.073	1.00118.36	P
ATOM	28287	CG1	VAL	P	155	74.466	20.821	25.442	1.00119.89	P
ATOM	28288	CG2	VAL	P	155	73.642	22.841	24.255	1.00117.04	P
ATOM	28289	C	VAL	P	155	71.867	19.549	25.115	1.00119.09	P
ATOM	28290	O	VAL	P	155	70.864	19.568	25.823	1.00118.13	P
ATOM	28291	N	VAL	P	156	72.673	18.500	25.019	1.00121.70	P
ATOM	28292	CA	VAL	P	156	72.451	17.277	25.775	1.00125.46	P
ATOM	28293	CB	VAL	P	156	71.913	16.155	24.874	1.00125.16	P
ATOM	28294	CG1	VAL	P	156	71.540	14.955	25.719	1.00123.42	P
ATOM	28295	CG2	VAL	P	156	70.712	16.653	24.082	1.00125.90	P
ATOM	28296	C	VAL	P	156	73.801	16.860	26.348	1.00128.89	P
ATOM	28297	O	VAL	P	156	74.333	15.802	26.012	1.00130.36	P
ATOM	28298	N	PRO	P	157	74.360	17.692	27.240	1.00130.86	P
ATOM	28299	CD	PRO	P	157	73.583	18.741	27.931	1.00132.55	P
ATOM	28300	CA	PRO	P	157	75.649	17.498	27.907	1.00131.02	P
ATOM	28301	CB	PRO	P	157	75.396	18.075	29.294	1.00131.61	P
ATOM	28302	CG	PRO	P	157	74.575	19.275	28.965	1.00132.82	P
ATOM	28303	C	PRO	P	157	76.208	16.080	27.951	1.00129.91	P
ATOM	28304	O	PRO	P	157	75.490	15.111	28.203	1.00129.03	P
ATOM	28305	N	THR	P	158	77.508	15.988	27.690	1.00129.51	P
ATOM	28306	CA	THR	P	158	78.232	14.728	27.700	1.00129.05	P
ATOM	28307	CB	THR	P	158	79.596	14.889	26.998	1.00127.72	P
ATOM	28308	OG1	THR	P	158	80.371	13.698	27.172	1.00127.89	P
ATOM	28309	CG2	THR	P	158	80.352	16.078	27.569	1.00127.20	P
ATOM	28310	C	THR	P	158	78.445	14.325	29.156	1.00130.06	P
ATOM	28311	O	THR	P	158	78.612	15.188	30.020	1.00130.67	P
ATOM	28312	N	GLY	P	159	78.432	13.023	29.431	1.00131.36	P
ATOM	28313	CA	GLY	P	159	78.611	12.565	30.799	1.00133.57	P

ATOM	28314	C	GLY	P	159	79.453	11.316	30.997	1.00135.16	P
ATOM	28315	O	GLY	P	159	80.027	10.780	30.048	1.00134.86	P
ATOM	28316	N	GLY	P	160	79.516	10.860	32.247	1.00136.91	P
ATOM	28317	CA	GLY	P	160	80.285	9.680	32.611	1.00139.35	P
ATOM	28318	C	GLY	P	160	80.372	8.604	31.548	1.00141.39	P
ATOM	28319	O	GLY	P	160	79.351	8.136	31.047	1.00141.60	P
ATOM	28320	N	CYS	P	161	81.597	8.207	31.211	1.00142.92	P
ATOM	28321	CA	CYS	P	161	81.824	7.187	30.196	1.00144.04	P
ATOM	28322	C	CYS	P	161	81.607	5.785	30.735	1.00145.73	P
ATOM	28323	O	CYS	P	161	81.591	5.564	31.948	1.00144.38	P
ATOM	28324	CB	CYS	P	161	83.236	7.306	29.637	1.00143.83	P
ATOM	28325	SG	CYS	P	161	83.532	8.892	28.800	1.00145.65	P
ATOM	28326	N	ASP	P	162	81.453	4.844	29.810	1.00149.15	P
ATOM	28327	CA	ASP	P	162	81.207	3.445	30.132	1.00153.09	P
ATOM	28328	CB	ASP	P	162	80.788	2.694	28.866	1.00154.14	P
ATOM	28329	CG	ASP	P	162	80.447	1.243	29.134	1.00156.46	P
ATOM	28330	OD1	ASP	P	162	79.519	0.984	29.931	1.00157.50	P
ATOM	28331	OD2	ASP	P	162	81.109	0.362	28.546	1.00157.94	P
ATOM	28332	C	ASP	P	162	82.399	2.739	30.769	1.00155.82	P
ATOM	28333	O	ASP	P	162	83.369	2.407	30.090	1.00155.75	P
ATOM	28334	N	VAL	P	163	82.308	2.500	32.076	1.00158.70	P
ATOM	28335	CA	VAL	P	163	83.368	1.824	32.815	1.00160.49	P
ATOM	28336	CB	VAL	P	163	83.393	2.264	34.291	1.00159.63	P
ATOM	28337	CG1	VAL	P	163	84.582	1.637	34.996	1.00160.00	P
ATOM	28338	CG2	VAL	P	163	83.455	3.776	34.381	1.00159.74	P
ATOM	28339	C	VAL	P	163	83.156	0.315	32.769	1.00162.66	P
ATOM	28340	O	VAL	P	163	82.496	-0.254	33.639	1.00161.93	P
ATOM	28341	N	SER	P	164	83.716	-0.326	31.748	1.00166.04	P
ATOM	28342	CA	SER	P	164	83.586	-1.770	31.584	1.00169.36	P
ATOM	28343	CB	SER	P	164	83.714	-2.156	30.107	1.00169.51	P
ATOM	28344	OG	SER	P	164	82.727	-1.516	29.317	1.00169.75	P
ATOM	28345	C	SER	P	164	84.643	-2.513	32.392	1.00171.57	P
ATOM	28346	O	SER	P	164	85.838	-2.248	32.264	1.00171.88	P
ATOM	28347	N	ALA	P	165	84.192	-3.446	33.223	1.00173.89	P
ATOM	28348	CA	ALA	P	165	85.084	-4.241	34.055	1.00176.26	P
ATOM	28349	CB	ALA	P	165	85.504	-3.443	35.281	1.00175.44	P
ATOM	28350	C	ALA	P	165	84.350	-5.505	34.477	1.00178.52	P
ATOM	28351	O	ALA	P	165	83.491	-5.464	35.358	1.00178.67	P
ATOM	28352	N	ARG	P	166	84.692	-6.621	33.839	1.00181.40	P
ATOM	28353	CA	ARG	P	166	84.067	-7.910	34.124	1.00184.35	P
ATOM	28354	CB	ARG	P	166	85.038	-9.053	33.811	1.00184.53	P
ATOM	28355	CG	ARG	P	166	85.355	-9.189	32.332	1.00185.71	P
ATOM	28356	CD	ARG	P	166	86.138	-10.456	32.032	1.00186.05	P
ATOM	28357	NE	ARG	P	166	86.316	-10.645	30.594	1.00186.18	P
ATOM	28358	CZ	ARG	P	166	86.922	-11.692	30.044	1.00186.03	P
ATOM	28359	NH1	ARG	P	166	87.414	-12.657	30.809	1.00186.61	P
ATOM	28360	NH2	ARG	P	166	87.035	-11.775	28.726	1.00185.47	P
ATOM	28361	C	ARG	P	166	83.574	-8.042	35.558	1.00186.22	P
ATOM	28362	O	ARG	P	166	82.370	-7.983	35.817	1.00186.49	P
ATOM	28363	N	ASP	P	167	84.510	-8.214	36.485	1.00188.21	P
ATOM	28364	CA	ASP	P	167	84.173	-8.363	37.894	1.00190.36	P
ATOM	28365	CB	ASP	P	167	83.160	-9.496	38.069	1.00191.10	P
ATOM	28366	CG	ASP	P	167	83.547	-10.747	37.301	1.00191.35	P
ATOM	28367	OD1	ASP	P	167	82.751	-11.709	37.298	1.00191.97	P
ATOM	28368	OD2	ASP	P	167	84.644	-10.770	36.702	1.00190.71	P
ATOM	28369	C	ASP	P	167	85.423	-8.656	38.711	1.00191.69	P
ATOM	28370	O	ASP	P	167	86.442	-9.078	38.163	1.00191.50	P
ATOM	28371	N	VAL	P	168	85.333	-8.427	40.019	1.00193.48	P

ATOM	28372	CA	VAL	P	168	86.449	-8.656	40.933	1.00195.30	P
ATOM	28373	CB	VAL	P	168	85.946	-8.822	42.395	1.00195.05	P
ATOM	28374	CG1	VAL	P	168	84.868	-9.891	42.461	1.00195.65	P
ATOM	28375	CG2	VAL	P	168	87.109	-9.175	43.314	1.00194.70	P
ATOM	28376	C	VAL	P	168	87.288	-9.873	40.539	1.00196.47	P
ATOM	28377	O	VAL	P	168	86.912	-11.021	40.791	1.00196.91	P
ATOM	28378	N	THR	P	169	88.427	-9.607	39.908	1.00197.02	P
ATOM	28379	CA	THR	P	169	89.329	-10.662	39.471	1.00197.07	P
ATOM	28380	CB	THR	P	169	90.362	-10.130	38.450	1.00197.09	P
ATOM	28381	OG1	THR	P	169	89.678	-9.583	37.316	1.00196.78	P
ATOM	28382	CG2	THR	P	169	91.284	-11.250	37.984	1.00196.88	P
ATOM	28383	C	THR	P	169	90.075	-11.236	40.667	1.00197.21	P
ATOM	28384	O	THR	P	169	90.338	-10.535	41.646	1.00196.99	P
ATOM	28385	N	VAL	P	170	90.405	-12.518	40.583	1.00197.42	P
ATOM	28386	CA	VAL	P	170	91.130	-13.188	41.649	1.00197.75	P
ATOM	28387	CB	VAL	P	170	90.523	-14.573	41.946	1.00198.27	P
ATOM	28388	CG1	VAL	P	170	91.215	-15.199	43.146	1.00198.44	P
ATOM	28389	CG2	VAL	P	170	89.028	-14.440	42.196	1.00198.23	P
ATOM	28390	C	VAL	P	170	92.576	-13.357	41.199	1.00197.65	P
ATOM	28391	O	VAL	P	170	92.853	-13.434	40.000	1.00197.37	P
ATOM	28392	N	THR	P	171	93.497	-13.406	42.155	1.00197.45	P
ATOM	28393	CA	THR	P	171	94.905	-13.560	41.826	1.00197.32	P
ATOM	28394	CB	THR	P	171	95.748	-12.444	42.460	1.00196.74	P
ATOM	28395	OG1	THR	P	171	95.189	-11.170	42.120	1.00195.57	P
ATOM	28396	CG2	THR	P	171	97.174	-12.510	41.945	1.00196.30	P
ATOM	28397	C	THR	P	171	95.450	-14.905	42.290	1.00197.76	P
ATOM	28398	O	THR	P	171	95.344	-15.259	43.466	1.00197.46	P
ATOM	28399	N	LEU	P	172	96.030	-15.650	41.354	1.00198.58	P
ATOM	28400	CA	LEU	P	172	96.604	-16.956	41.651	1.00199.22	P
ATOM	28401	CB	LEU	P	172	97.350	-17.496	40.425	1.00198.84	P
ATOM	28402	CG	LEU	P	172	96.566	-17.603	39.112	1.00198.13	P
ATOM	28403	CD1	LEU	P	172	97.502	-18.041	38.000	1.00197.86	P
ATOM	28404	CD2	LEU	P	172	95.419	-18.589	39.266	1.00197.99	P
ATOM	28405	C	LEU	P	172	97.574	-16.807	42.819	1.00199.82	P
ATOM	28406	O	LEU	P	172	98.457	-15.949	42.793	1.00200.00	P
ATOM	28407	N	PRO	P	173	97.418	-17.638	43.865	1.00199.96	P
ATOM	28408	CD	PRO	P	173	96.488	-18.775	43.986	1.00199.74	P
ATOM	28409	CA	PRO	P	173	98.305	-17.565	45.031	1.00199.83	P
ATOM	28410	CB	PRO	P	173	97.735	-18.634	45.964	1.00199.18	P
ATOM	28411	CG	PRO	P	173	97.179	-19.646	45.007	1.00199.34	P
ATOM	28412	C	PRO	P	173	99.764	-17.823	44.653	1.00199.98	P
ATOM	28413	O	PRO	P	173	100.152	-17.644	43.497	1.00199.90	P
ATOM	28414	N	ASP	P	174	100.570	-18.238	45.626	1.00200.00	P
ATOM	28415	CA	ASP	P	174	101.985	-18.515	45.380	1.00200.00	P
ATOM	28416	CB	ASP	P	174	102.144	-19.560	44.266	1.00200.00	P
ATOM	28417	CG	ASP	P	174	101.460	-20.878	44.588	1.00200.00	P
ATOM	28418	OD1	ASP	P	174	100.231	-20.879	44.814	1.00200.00	P
ATOM	28419	OD2	ASP	P	174	102.156	-21.917	44.607	1.00200.00	P
ATOM	28420	C	ASP	P	174	102.709	-17.237	44.961	1.00199.64	P
ATOM	28421	O	ASP	P	174	102.088	-16.187	44.790	1.00199.74	P
ATOM	28422	N	TYR	P	175	104.027	-17.332	44.801	1.00199.01	P
ATOM	28423	CA	TYR	P	175	104.828	-16.190	44.372	1.00198.05	P
ATOM	28424	CB	TYR	P	175	106.323	-16.467	44.577	1.00198.61	P
ATOM	28425	CG	TYR	P	175	106.793	-16.370	46.015	1.00198.75	P
ATOM	28426	CD1	TYR	P	175	106.236	-17.172	47.009	1.00198.77	P
ATOM	28427	CE1	TYR	P	175	106.675	-17.092	48.331	1.00198.53	P
ATOM	28428	CD2	TYR	P	175	107.807	-15.481	46.377	1.00198.65	P
ATOM	28429	CE2	TYR	P	175	108.254	-15.393	47.693	1.00198.26	P

ATOM	28430	CZ	TYR	P	175	107.684	-16.201	48.664	1.00198.34	P
ATOM	28431	OH	TYR	P	175	108.124	-16.121	49.964	1.00197.71	P
ATOM	28432	C	TYR	P	175	104.551	-15.895	42.895	1.00196.78	P
ATOM	28433	O	TYR	P	175	104.355	-14.739	42.514	1.00196.37	P
ATOM	28434	N	PRO	P	176	104.535	-16.939	42.042	1.00195.53	P
ATOM	28435	CD	PRO	P	176	104.776	-18.369	42.314	1.00195.62	P
ATOM	28436	CA	PRO	P	176	104.271	-16.727	40.616	1.00194.02	P
ATOM	28437	CB	PRO	P	176	104.603	-18.084	40.002	1.00194.32	P
ATOM	28438	CG	PRO	P	176	104.201	-19.034	41.081	1.00194.82	P
ATOM	28439	C	PRO	P	176	102.816	-16.330	40.398	1.00192.58	P
ATOM	28440	O	PRO	P	176	102.004	-17.124	39.919	1.00192.11	P
ATOM	28441	N	GLY	P	177	102.495	-15.095	40.767	1.00191.20	P
ATOM	28442	CA	GLY	P	177	101.141	-14.605	40.613	1.00189.61	P
ATOM	28443	C	GLY	P	177	101.075	-13.350	39.768	1.00188.31	P
ATOM	28444	O	GLY	P	177	101.867	-12.423	39.941	1.00187.55	P
ATOM	28445	N	SER	P	178	100.119	-13.332	38.848	1.00187.47	P
ATOM	28446	CA	SER	P	178	99.913	-12.206	37.949	1.00186.29	P
ATOM	28447	CB	SER	P	178	101.113	-12.036	37.014	1.00186.58	P
ATOM	28448	OG	SER	P	178	100.865	-11.033	36.043	1.00186.38	P
ATOM	28449	C	SER	P	178	98.664	-12.482	37.130	1.00185.11	P
ATOM	28450	O	SER	P	178	98.667	-13.337	36.245	1.00184.89	P
ATOM	28451	N	VAL	P	179	97.593	-11.759	37.432	1.00184.13	P
ATOM	28452	CA	VAL	P	179	96.336	-11.944	36.725	1.00183.46	P
ATOM	28453	CB	VAL	P	179	95.243	-12.477	37.683	1.00183.49	P
ATOM	28454	CG1	VAL	P	179	95.595	-13.887	38.131	1.00184.22	P
ATOM	28455	CG2	VAL	P	179	95.115	-11.566	38.896	1.00183.45	P
ATOM	28456	C	VAL	P	179	95.845	-10.659	36.062	1.00182.67	P
ATOM	28457	O	VAL	P	179	94.938	-9.997	36.569	1.00182.75	P
ATOM	28458	N	PRO	P	180	96.436	-10.292	34.912	1.00181.53	P
ATOM	28459	CD	PRO	P	180	97.354	-11.070	34.065	1.00181.14	P
ATOM	28460	CA	PRO	P	180	96.008	-9.069	34.225	1.00180.44	P
ATOM	28461	CB	PRO	P	180	96.698	-9.175	32.861	1.00180.49	P
ATOM	28462	CG	PRO	P	180	96.922	-10.653	32.688	1.00180.87	P
ATOM	28463	C	PRO	P	180	94.486	-9.005	34.122	1.00179.31	P
ATOM	28464	O	PRO	P	180	93.864	-9.822	33.442	1.00179.22	P
ATOM	28465	N	ILE	P	181	93.899	-8.033	34.814	1.00178.12	P
ATOM	28466	CA	ILE	P	181	92.449	-7.853	34.837	1.00177.08	P
ATOM	28467	CB	ILE	P	181	92.011	-7.050	36.086	1.00177.47	P
ATOM	28468	CG2	ILE	P	181	90.494	-6.901	36.109	1.00176.78	P
ATOM	28469	CG1	ILE	P	181	92.498	-7.753	37.355	1.00177.78	P
ATOM	28470	CD1	ILE	P	181	92.186	-6.997	38.635	1.00177.62	P
ATOM	28471	C	ILE	P	181	91.904	-7.136	33.602	1.00175.32	P
ATOM	28472	O	ILE	P	181	92.406	-6.078	33.213	1.00175.78	P
ATOM	28473	N	PRO	P	182	90.868	-7.712	32.965	1.00172.61	P
ATOM	28474	CD	PRO	P	182	90.349	-9.075	33.172	1.00172.08	P
ATOM	28475	CA	PRO	P	182	90.264	-7.106	31.774	1.00169.35	P
ATOM	28476	CB	PRO	P	182	89.295	-8.185	31.289	1.00170.00	P
ATOM	28477	CG	PRO	P	182	89.925	-9.458	31.778	1.00170.86	P
ATOM	28478	C	PRO	P	182	89.542	-5.809	32.142	1.00165.56	P
ATOM	28479	O	PRO	P	182	88.742	-5.784	33.080	1.00164.94	P
ATOM	28480	N	LEU	P	183	89.830	-4.735	31.412	1.00161.12	P
ATOM	28481	CA	LEU	P	183	89.195	-3.452	31.681	1.00156.23	P
ATOM	28482	CB	LEU	P	183	89.852	-2.792	32.898	1.00155.15	P
ATOM	28483	CG	LEU	P	183	88.923	-2.601	34.102	1.00153.48	P
ATOM	28484	CD1	LEU	P	183	89.719	-2.569	35.393	1.00151.98	P
ATOM	28485	CD2	LEU	P	183	88.126	-1.323	33.918	1.00153.03	P
ATOM	28486	C	LEU	P	183	89.227	-2.511	30.479	1.00152.94	P
ATOM	28487	O	LEU	P	183	90.293	-2.147	29.987	1.00151.44	P

ATOM	28488	N	THR	P	184	88.037	-2.134	30.018	1.00150.28	P
ATOM	28489	CA	THR	P	184	87.862	-1.241	28.877	1.00147.43	P
ATOM	28490	CB	THR	P	184	87.361	-2.008	27.638	1.00146.96	P
ATOM	28491	OG1	THR	P	184	86.869	-1.078	26.666	1.00145.82	P
ATOM	28492	CG2	THR	P	184	86.248	-2.970	28.017	1.00145.24	P
ATOM	28493	C	THR	P	184	86.838	-0.166	29.215	1.00146.29	P
ATOM	28494	O	THR	P	184	85.997	-0.361	30.088	1.00146.72	P
ATOM	28495	N	VAL	P	185	86.908	0.966	28.523	1.00144.81	P
ATOM	28496	CA	VAL	P	185	85.976	2.067	28.762	1.00144.00	P
ATOM	28497	CB	VAL	P	185	86.430	2.944	29.963	1.00144.17	P
ATOM	28498	CG1	VAL	P	185	85.613	4.231	30.014	1.00142.71	P
ATOM	28499	CG2	VAL	P	185	86.270	2.175	31.267	1.00142.54	P
ATOM	28500	C	VAL	P	185	85.828	2.969	27.539	1.00143.45	P
ATOM	28501	O	VAL	P	185	86.817	3.450	26.988	1.00143.02	P
ATOM	28502	N	TYR	P	186	84.586	3.194	27.120	1.00142.96	P
ATOM	28503	CA	TYR	P	186	84.309	4.055	25.978	1.00142.13	P
ATOM	28504	CB	TYR	P	186	84.037	3.216	24.724	1.00141.83	P
ATOM	28505	CG	TYR	P	186	82.792	2.362	24.775	1.00141.60	P
ATOM	28506	CD1	TYR	P	186	81.675	2.679	24.001	1.00140.87	P
ATOM	28507	CE1	TYR	P	186	80.534	1.884	24.026	1.00141.70	P
ATOM	28508	CD2	TYR	P	186	82.736	1.225	25.581	1.00141.65	P
ATOM	28509	CE2	TYR	P	186	81.600	0.423	25.614	1.00141.62	P
ATOM	28510	CZ	TYR	P	186	80.503	0.757	24.834	1.00141.59	P
ATOM	28511	OH	TYR	P	186	79.378	-0.035	24.861	1.00141.29	P
ATOM	28512	C	TYR	P	186	83.121	4.955	26.302	1.00141.88	P
ATOM	28513	O	TYR	P	186	82.377	4.689	27.247	1.00140.92	P
ATOM	28514	N	CYS	P	187	82.949	6.019	25.523	1.00142.93	P
ATOM	28515	CA	CYS	P	187	81.866	6.973	25.759	1.00143.90	P
ATOM	28516	C	CYS	P	187	80.872	7.071	24.605	1.00143.25	P
ATOM	28517	O	CYS	P	187	81.143	6.615	23.493	1.00143.23	P
ATOM	28518	CB	CYS	P	187	82.449	8.366	26.010	1.00145.73	P
ATOM	28519	SG	CYS	P	187	84.035	8.381	26.901	1.00147.02	P
ATOM	28520	N	ALA	P	188	79.720	7.676	24.883	1.00142.00	P
ATOM	28521	CA	ALA	P	188	78.692	7.870	23.869	1.00140.46	P
ATOM	28522	CB	ALA	P	188	77.418	8.387	24.511	1.00140.56	P
ATOM	28523	C	ALA	P	188	79.248	8.898	22.893	1.00139.67	P
ATOM	28524	O	ALA	P	188	78.889	8.921	21.715	1.00138.92	P
ATOM	28525	N	LYS	P	189	80.130	9.747	23.413	1.00139.90	P
ATOM	28526	CA	LYS	P	189	80.794	10.789	22.637	1.00139.22	P
ATOM	28527	CB	LYS	P	189	80.174	12.158	22.931	1.00138.89	P
ATOM	28528	CG	LYS	P	189	78.852	12.401	22.221	1.00138.62	P
ATOM	28529	CD	LYS	P	189	79.021	12.378	20.703	1.00138.43	P
ATOM	28530	CE	LYS	P	189	79.999	13.445	20.236	1.00138.00	P
ATOM	28531	NZ	LYS	P	189	80.155	13.445	18.758	1.00138.69	P
ATOM	28532	C	LYS	P	189	82.286	10.813	22.967	1.00137.92	P
ATOM	28533	O	LYS	P	189	82.679	10.983	24.124	1.00135.96	P
ATOM	28534	N	SER	P	190	83.106	10.635	21.937	1.00137.56	P
ATOM	28535	CA	SER	P	190	84.554	10.623	22.089	1.00137.62	P
ATOM	28536	CB	SER	P	190	85.223	10.582	20.713	1.00138.20	P
ATOM	28537	OG	SER	P	190	86.635	10.542	20.833	1.00139.77	P
ATOM	28538	C	SER	P	190	85.065	11.827	22.872	1.00137.19	P
ATOM	28539	O	SER	P	190	85.264	12.908	22.316	1.00137.04	P
ATOM	28540	N	GLN	P	191	85.276	11.628	24.168	1.00136.15	P
ATOM	28541	CA	GLN	P	191	85.771	12.681	25.045	1.00134.50	P
ATOM	28542	CB	GLN	P	191	84.719	13.018	26.098	1.00135.94	P
ATOM	28543	CG	GLN	P	191	84.192	11.798	26.833	1.00139.38	P
ATOM	28544	CD	GLN	P	191	83.460	12.153	28.112	1.00140.58	P
ATOM	28545	OE1	GLN	P	191	84.066	12.620	29.081	1.00140.54	P

ATOM	28546	NE2	GLN	P	191	82.148	11.935	28.124	1.00141.86	P
ATOM	28547	C	GLN	P	191	87.048	12.217	25.737	1.00132.52	P
ATOM	28548	O	GLN	P	191	87.094	11.122	26.296	1.00132.82	P
ATOM	28549	N	ASN	P	192	88.082	13.053	25.704	1.00130.00	P
ATOM	28550	CA	ASN	P	192	89.357	12.714	26.328	1.00126.49	P
ATOM	28551	CB	ASN	P	192	90.358	13.848	26.122	1.00125.34	P
ATOM	28552	CG	ASN	P	192	90.984	13.816	24.746	1.00125.43	P
ATOM	28553	OD1	ASN	P	192	90.297	13.618	23.742	1.00125.79	P
ATOM	28554	ND2	ASN	P	192	92.294	14.012	24.688	1.00126.73	P
ATOM	28555	C	ASN	P	192	89.233	12.387	27.808	1.00123.10	P
ATOM	28556	O	ASN	P	192	88.717	13.183	28.595	1.00122.87	P
ATOM	28557	N	LEU	P	193	89.719	11.204	28.171	1.00118.98	P
ATOM	28558	CA	LEU	P	193	89.670	10.723	29.544	1.00116.01	P
ATOM	28559	CB	LEU	P	193	89.033	9.333	29.589	1.00114.51	P
ATOM	28560	CG	LEU	P	193	87.549	9.236	29.940	1.00111.64	P
ATOM	28561	CD1	LEU	P	193	87.073	7.799	29.795	1.00111.01	P
ATOM	28562	CD2	LEU	P	193	87.339	9.728	31.364	1.00111.58	P
ATOM	28563	C	LEU	P	193	91.039	10.654	30.200	1.00114.67	P
ATOM	28564	O	LEU	P	193	92.071	10.759	29.535	1.00115.11	P
ATOM	28565	N	GLY	P	194	91.024	10.466	31.516	1.00112.37	P
ATOM	28566	CA	GLY	P	194	92.246	10.359	32.289	1.00110.15	P
ATOM	28567	C	GLY	P	194	91.924	9.606	33.564	1.00109.43	P
ATOM	28568	O	GLY	P	194	90.751	9.472	33.915	1.00109.35	P
ATOM	28569	N	TYR	P	195	92.944	9.107	34.261	1.00108.57	P
ATOM	28570	CA	TYR	P	195	92.711	8.370	35.500	1.00106.98	P
ATOM	28571	CB	TYR	P	195	92.045	7.023	35.203	1.00110.14	P
ATOM	28572	CG	TYR	P	195	92.993	5.999	34.616	1.00111.26	P
ATOM	28573	CD1	TYR	P	195	93.395	6.074	33.282	1.00112.73	P
ATOM	28574	CE1	TYR	P	195	94.303	5.163	32.752	1.00113.10	P
ATOM	28575	CD2	TYR	P	195	93.524	4.981	35.410	1.00111.30	P
ATOM	28576	CE2	TYR	P	195	94.434	4.068	34.893	1.00113.13	P
ATOM	28577	CZ	TYR	P	195	94.820	4.163	33.562	1.00115.10	P
ATOM	28578	OH	TYR	P	195	95.724	3.262	33.045	1.00118.25	P
ATOM	28579	C	TYR	P	195	93.984	8.107	36.297	1.00104.65	P
ATOM	28580	O	TYR	P	195	95.073	8.013	35.735	1.00101.18	P
ATOM	28581	N	TYR	P	196	93.828	7.978	37.610	1.00105.58	P
ATOM	28582	CA	TYR	P	196	94.945	7.693	38.495	1.00107.94	P
ATOM	28583	CB	TYR	P	196	95.422	8.966	39.207	1.00110.21	P
ATOM	28584	CG	TYR	P	196	94.516	9.523	40.291	1.00112.53	P
ATOM	28585	CD1	TYR	P	196	94.330	8.842	41.493	1.00113.06	P
ATOM	28586	CE1	TYR	P	196	93.559	9.386	42.516	1.00114.50	P
ATOM	28587	CD2	TYR	P	196	93.897	10.768	40.139	1.00113.00	P
ATOM	28588	CE2	TYR	P	196	93.118	11.320	41.162	1.00113.39	P
ATOM	28589	CZ	TYR	P	196	92.956	10.620	42.350	1.00115.35	P
ATOM	28590	OH	TYR	P	196	92.203	11.150	43.377	1.00116.50	P
ATOM	28591	C	TYR	P	196	94.483	6.649	39.491	1.00110.74	P
ATOM	28592	O	TYR	P	196	93.321	6.630	39.881	1.00110.19	P
ATOM	28593	N	LEU	P	197	95.393	5.778	39.901	1.00116.18	P
ATOM	28594	CA	LEU	P	197	95.049	4.708	40.827	1.00122.65	P
ATOM	28595	CB	LEU	P	197	95.961	3.503	40.577	1.00124.27	P
ATOM	28596	CG	LEU	P	197	96.235	3.192	39.103	1.00125.10	P
ATOM	28597	CD1	LEU	P	197	97.125	1.962	39.005	1.00124.66	P
ATOM	28598	CD2	LEU	P	197	94.924	2.981	38.357	1.00124.13	P
ATOM	28599	C	LEU	P	197	95.117	5.104	42.299	1.00125.58	P
ATOM	28600	O	LEU	P	197	96.091	4.793	42.987	1.00126.25	P
ATOM	28601	N	SER	P	198	94.077	5.776	42.783	1.00128.37	P
ATOM	28602	CA	SER	P	198	94.028	6.192	44.182	1.00132.28	P
ATOM	28603	CB	SER	P	198	92.859	7.151	44.417	1.00133.27	P

ATOM	28604	OG	SER	P	198	91.669	6.678	43.814	1.00135.55	P
ATOM	28605	C	SER	P	198	93.895	4.995	45.115	1.00134.59	P
ATOM	28606	O	SER	P	198	92.940	4.224	45.023	1.00134.64	P
ATOM	28607	N	GLY	P	199	94.860	4.850	46.017	1.00137.43	P
ATOM	28608	CA	GLY	P	199	94.841	3.745	46.958	1.00140.50	P
ATOM	28609	C	GLY	P	199	95.846	3.951	48.074	1.00142.61	P
ATOM	28610	O	GLY	P	199	96.310	5.071	48.293	1.00142.88	P
ATOM	28611	N	THR	P	200	96.185	2.874	48.778	1.00144.40	P
ATOM	28612	CA	THR	P	200	97.141	2.946	49.880	1.00146.21	P
ATOM	28613	CB	THR	P	200	96.443	2.722	51.240	1.00145.99	P
ATOM	28614	OG1	THR	P	200	95.497	3.774	51.469	1.00145.46	P
ATOM	28615	CG2	THR	P	200	97.464	2.706	52.371	1.00144.12	P
ATOM	28616	C	THR	P	200	98.268	1.928	49.728	1.00147.52	P
ATOM	28617	O	THR	P	200	98.023	0.739	49.515	1.00147.31	P
ATOM	28618	N	THR	P	201	99.502	2.409	49.849	1.00149.26	P
ATOM	28619	CA	THR	P	201	100.687	1.568	49.715	1.00150.21	P
ATOM	28620	CB	THR	P	201	101.738	2.237	48.807	1.00149.42	P
ATOM	28621	OG1	THR	P	201	102.778	1.300	48.498	1.00147.57	P
ATOM	28622	CG2	THR	P	201	102.349	3.439	49.512	1.00149.13	P
ATOM	28623	C	THR	P	201	101.337	1.295	51.069	1.00151.30	P
ATOM	28624	O	THR	P	201	100.958	1.882	52.085	1.00151.07	P
ATOM	28625	N	ALA	P	202	102.328	0.409	51.066	1.00152.61	P
ATOM	28626	CA	ALA	P	202	103.046	0.045	52.279	1.00153.28	P
ATOM	28627	CB	ALA	P	202	102.910	-1.454	52.537	1.00153.49	P
ATOM	28628	C	ALA	P	202	104.520	0.423	52.176	1.00153.70	P
ATOM	28629	O	ALA	P	202	105.397	-0.405	52.426	1.00154.04	P
ATOM	28630	N	ASP	P	203	104.790	1.672	51.807	1.00153.63	P
ATOM	28631	CA	ASP	P	203	106.163	2.148	51.674	1.00154.02	P
ATOM	28632	CB	ASP	P	203	106.917	1.321	50.622	1.00154.75	P
ATOM	28633	CG	ASP	P	203	106.245	1.347	49.258	1.00155.01	P
ATOM	28634	OD1	ASP	P	203	106.853	0.849	48.284	1.00154.43	P
ATOM	28635	OD2	ASP	P	203	105.110	1.857	49.160	1.00155.17	P
ATOM	28636	C	ASP	P	203	106.225	3.622	51.294	1.00154.18	P
ATOM	28637	O	ASP	P	203	105.230	4.342	51.376	1.00153.85	P
ATOM	28638	N	ALA	P	204	107.411	4.062	50.882	1.00154.82	P
ATOM	28639	CA	ALA	P	204	107.629	5.441	50.467	1.00155.11	P
ATOM	28640	CB	ALA	P	204	108.943	5.961	51.036	1.00154.55	P
ATOM	28641	C	ALA	P	204	107.652	5.501	48.941	1.00155.42	P
ATOM	28642	O	ALA	P	204	107.771	6.576	48.354	1.00155.75	P
ATOM	28643	N	GLY	P	205	107.543	4.335	48.307	1.00155.46	P
ATOM	28644	CA	GLY	P	205	107.533	4.273	46.856	1.00155.37	P
ATOM	28645	C	GLY	P	205	106.114	4.417	46.333	1.00155.84	P
ATOM	28646	O	GLY	P	205	105.877	4.368	45.126	1.00155.80	P
ATOM	28647	N	ASN	P	206	105.174	4.598	47.260	1.00156.27	P
ATOM	28648	CA	ASN	P	206	103.748	4.756	46.962	1.00155.76	P
ATOM	28649	CB	ASN	P	206	103.359	6.238	47.048	1.00153.52	P
ATOM	28650	CG	ASN	P	206	103.168	6.708	48.484	1.00151.05	P
ATOM	28651	OD1	ASN	P	206	102.233	6.290	49.166	1.00149.00	P
ATOM	28652	ND2	ASN	P	206	104.058	7.576	48.948	1.00150.30	P
ATOM	28653	C	ASN	P	206	103.273	4.156	45.638	1.00156.39	P
ATOM	28654	O	ASN	P	206	102.653	4.832	44.816	1.00155.44	P
ATOM	28655	N	SER	P	207	103.564	2.873	45.452	1.00158.12	P
ATOM	28656	CA	SER	P	207	103.169	2.144	44.253	1.00159.77	P
ATOM	28657	CB	SER	P	207	104.235	2.276	43.163	1.00159.03	P
ATOM	28658	OG	SER	P	207	105.437	1.631	43.541	1.00158.96	P
ATOM	28659	C	SER	P	207	102.989	0.675	44.622	1.00161.46	P
ATOM	28660	O	SER	P	207	102.775	-0.173	43.756	1.00162.31	P
ATOM	28661	N	ILE	P	208	103.084	0.385	45.917	1.00162.83	P

ATOM	28662	CA	ILE	P	208	102.931	-0.974	46.425	1.00164.30	P
ATOM	28663	CB	ILE	P	208	104.216	-1.445	47.150	1.00164.01	P
ATOM	28664	CG2	ILE	P	208	104.027	-2.857	47.687	1.00163.86	P
ATOM	28665	CG1	ILE	P	208	105.405	-1.398	46.186	1.00163.13	P
ATOM	28666	CD1	ILE	P	208	106.730	-1.785	46.814	1.00162.03	P
ATOM	28667	C	ILE	P	208	101.760	-1.021	47.405	1.00165.64	P
ATOM	28668	O	ILE	P	208	101.954	-1.065	48.620	1.00165.18	P
ATOM	28669	N	PHE	P	209	100.544	-1.009	46.865	1.00167.95	P
ATOM	28670	CA	PHE	P	209	99.330	-1.036	47.675	1.00169.90	P
ATOM	28671	CB	PHE	P	209	98.103	-1.263	46.778	1.00168.81	P
ATOM	28672	CG	PHE	P	209	98.053	-0.355	45.568	1.00167.62	P
ATOM	28673	CD1	PHE	P	209	98.785	-0.659	44.420	1.00167.07	P
ATOM	28674	CD2	PHE	P	209	97.281	0.805	45.579	1.00166.79	P
ATOM	28675	CE1	PHE	P	209	98.750	0.179	43.301	1.00166.09	P
ATOM	28676	CE2	PHE	P	209	97.240	1.650	44.465	1.00165.66	P
ATOM	28677	CZ	PHE	P	209	97.975	1.334	43.325	1.00165.83	P
ATOM	28678	C	PHE	P	209	99.409	-2.113	48.759	1.00172.13	P
ATOM	28679	O	PHE	P	209	100.075	-3.132	48.585	1.00172.46	P
ATOM	28680	N	THR	P	210	98.730	-1.879	49.878	1.00174.79	P
ATOM	28681	CA	THR	P	210	98.746	-2.816	51.001	1.00177.94	P
ATOM	28682	CB	THR	P	210	98.503	-2.081	52.334	1.00177.22	P
ATOM	28683	OG1	THR	P	210	97.323	-1.274	52.230	1.00176.66	P
ATOM	28684	CG2	THR	P	210	99.683	-1.201	52.680	1.00177.90	P
ATOM	28685	C	THR	P	210	97.740	-3.963	50.910	1.00180.65	P
ATOM	28686	O	THR	P	210	97.178	-4.236	49.850	1.00181.08	P
ATOM	28687	N	ASN	P	211	97.535	-4.630	52.043	1.00183.43	P
ATOM	28688	CA	ASN	P	211	96.607	-5.754	52.160	1.00185.93	P
ATOM	28689	CB	ASN	P	211	97.381	-7.035	52.500	1.00186.52	P
ATOM	28690	CG	ASN	P	211	96.473	-8.243	52.692	1.00187.31	P
ATOM	28691	OD1	ASN	P	211	96.925	-9.306	53.117	1.00187.27	P
ATOM	28692	ND2	ASN	P	211	95.192	-8.085	52.375	1.00187.46	P
ATOM	28693	C	ASN	P	211	95.598	-5.448	53.271	1.00187.46	P
ATOM	28694	O	ASN	P	211	95.979	-5.238	54.423	1.00187.38	P
ATOM	28695	N	THR	P	212	94.315	-5.427	52.919	1.00189.07	P
ATOM	28696	CA	THR	P	212	93.254	-5.136	53.882	1.00190.31	P
ATOM	28697	CB	THR	P	212	92.097	-4.357	53.216	1.00189.88	P
ATOM	28698	OG1	THR	P	212	92.624	-3.249	52.477	1.00188.63	P
ATOM	28699	CG2	THR	P	212	91.134	-3.833	54.272	1.00189.72	P
ATOM	28700	C	THR	P	212	92.682	-6.414	54.494	1.00191.64	P
ATOM	28701	O	THR	P	212	91.616	-6.882	54.087	1.00192.06	P
ATOM	28702	N	ALA	P	213	93.387	-6.974	55.473	1.00192.63	P
ATOM	28703	CA	ALA	P	213	92.934	-8.199	56.124	1.00193.52	P
ATOM	28704	CB	ALA	P	213	93.172	-9.394	55.202	1.00193.38	P
ATOM	28705	C	ALA	P	213	93.616	-8.436	57.470	1.00194.11	P
ATOM	28706	O	ALA	P	213	94.692	-7.901	57.739	1.00193.86	P
ATOM	28707	N	SER	P	214	92.972	-9.242	58.310	1.00194.93	P
ATOM	28708	CA	SER	P	214	93.493	-9.588	59.630	1.00195.23	P
ATOM	28709	CB	SER	P	214	92.431	-9.318	60.702	1.00194.72	P
ATOM	28710	OG	SER	P	214	92.899	-9.683	61.988	1.00193.84	P
ATOM	28711	C	SER	P	214	93.879	-11.068	59.633	1.00195.72	P
ATOM	28712	O	SER	P	214	94.330	-11.608	60.644	1.00195.46	P
ATOM	28713	N	PHE	P	215	93.691	-11.707	58.480	1.00196.29	P
ATOM	28714	CA	PHE	P	215	94.000	-13.121	58.277	1.00196.45	P
ATOM	28715	CB	PHE	P	215	93.155	-13.665	57.114	1.00197.29	P
ATOM	28716	CG	PHE	P	215	93.533	-15.055	56.651	1.00198.84	P
ATOM	28717	CD1	PHE	P	215	93.010	-15.553	55.463	1.00199.35	P
ATOM	28718	CD2	PHE	P	215	94.417	-15.855	57.373	1.00199.69	P
ATOM	28719	CE1	PHE	P	215	93.355	-16.820	54.999	1.00200.00	P

ATOM	28720	CE2	PHE	P	215	94.770	-17.127	56.915	1.00199.99	P
ATOM	28721	CZ	PHE	P	215	94.240	-17.606	55.724	1.00200.00	P
ATOM	28722	C	PHE	P	215	95.485	-13.292	57.969	1.00196.21	P
ATOM	28723	O	PHE	P	215	95.955	-12.881	56.908	1.00195.87	P
ATOM	28724	N	SER	P	216	96.207	-13.913	58.899	1.00196.13	P
ATOM	28725	CA	SER	P	216	97.638	-14.163	58.746	1.00195.90	P
ATOM	28726	CB	SER	P	216	97.862	-15.480	57.991	1.00195.73	P
ATOM	28727	OG	SER	P	216	99.239	-15.810	57.918	1.00194.49	P
ATOM	28728	C	SER	P	216	98.320	-13.015	58.008	1.00195.79	P
ATOM	28729	O	SER	P	216	98.655	-13.133	56.828	1.00195.88	P
ATOM	28730	N	PRO	P	217	98.534	-11.884	58.702	1.00195.36	P
ATOM	28731	CD	PRO	P	217	98.321	-11.721	60.150	1.00195.25	P
ATOM	28732	CA	PRO	P	217	99.174	-10.687	58.145	1.00194.57	P
ATOM	28733	CB	PRO	P	217	99.179	-9.724	59.328	1.00194.93	P
ATOM	28734	CG	PRO	P	217	99.330	-10.654	60.491	1.00195.39	P
ATOM	28735	C	PRO	P	217	100.581	-10.947	57.612	1.00193.56	P
ATOM	28736	O	PRO	P	217	101.574	-10.647	58.279	1.00193.30	P
ATOM	28737	N	ALA	P	218	100.659	-11.501	56.406	1.00192.40	P
ATOM	28738	CA	ALA	P	218	101.942	-11.798	55.787	1.00191.17	P
ATOM	28739	CB	ALA	P	218	101.728	-12.503	54.454	1.00191.25	P
ATOM	28740	C	ALA	P	218	102.747	-10.518	55.583	1.00189.92	P
ATOM	28741	O	ALA	P	218	102.187	-9.450	55.331	1.00189.83	P
ATOM	28742	N	GLN	P	219	104.065	-10.637	55.696	1.00188.37	P
ATOM	28743	CA	GLN	P	219	104.965	-9.503	55.530	1.00186.30	P
ATOM	28744	CB	GLN	P	219	106.260	-9.762	56.300	1.00185.12	P
ATOM	28745	CG	GLN	P	219	106.071	-9.932	57.798	1.00182.22	P
ATOM	28746	CD	GLN	P	219	107.250	-10.617	58.458	1.00180.57	P
ATOM	28747	OE1	GLN	P	219	107.414	-11.832	58.355	1.00178.76	P
ATOM	28748	NE2	GLN	P	219	108.084	-9.838	59.133	1.00179.04	P
ATOM	28749	C	GLN	P	219	105.283	-9.267	54.054	1.00185.30	P
ATOM	28750	O	GLN	P	219	105.657	-10.194	53.338	1.00185.64	P
ATOM	28751	N	GLY	P	220	105.125	-8.027	53.602	1.00183.56	P
ATOM	28752	CA	GLY	P	220	105.415	-7.702	52.216	1.00181.06	P
ATOM	28753	C	GLY	P	220	104.508	-8.338	51.179	1.00179.32	P
ATOM	28754	O	GLY	P	220	104.979	-9.049	50.291	1.00178.88	P
ATOM	28755	N	VAL	P	221	103.208	-8.081	51.285	1.00177.70	P
ATOM	28756	CA	VAL	P	221	102.237	-8.626	50.342	1.00175.63	P
ATOM	28757	CB	VAL	P	221	101.389	-9.744	50.981	1.00175.24	P
ATOM	28758	CG1	VAL	P	221	100.390	-10.280	49.967	1.00174.76	P
ATOM	28759	CG2	VAL	P	221	102.289	-10.860	51.480	1.00174.77	P
ATOM	28760	C	VAL	P	221	101.300	-7.529	49.857	1.00174.33	P
ATOM	28761	O	VAL	P	221	100.310	-7.207	50.516	1.00173.79	P
ATOM	28762	N	GLY	P	222	101.621	-6.956	48.701	1.00173.16	P
ATOM	28763	CA	GLY	P	222	100.798	-5.898	48.148	1.00171.89	P
ATOM	28764	C	GLY	P	222	100.475	-6.104	46.679	1.00170.75	P
ATOM	28765	O	GLY	P	222	100.497	-7.231	46.182	1.00171.51	P
ATOM	28766	N	VAL	P	223	100.172	-5.012	45.984	1.00168.42	P
ATOM	28767	CA	VAL	P	223	99.842	-5.064	44.563	1.00165.75	P
ATOM	28768	CB	VAL	P	223	98.308	-5.036	44.340	1.00166.09	P
ATOM	28769	CG1	VAL	P	223	97.988	-5.128	42.855	1.00165.81	P
ATOM	28770	CG2	VAL	P	223	97.652	-6.182	45.091	1.00166.07	P
ATOM	28771	C	VAL	P	223	100.461	-3.876	43.836	1.00163.63	P
ATOM	28772	O	VAL	P	223	100.863	-2.895	44.460	1.00163.38	P
ATOM	28773	N	GLN	P	224	100.542	-3.975	42.515	1.00161.38	P
ATOM	28774	CA	GLN	P	224	101.107	-2.908	41.701	1.00159.13	P
ATOM	28775	CB	GLN	P	224	102.622	-2.844	41.895	1.00158.96	P
ATOM	28776	CG	GLN	P	224	103.254	-1.570	41.370	1.00156.95	P
ATOM	28777	CD	GLN	P	224	104.730	-1.486	41.684	1.00155.27	P

ATOM	28778	OE1	GLN	P	224	105.144	-1.674	42.828	1.00154.64	P
ATOM	28779	NE2	GLN	P	224	105.533	-1.194	40.671	1.00154.35	P
ATOM	28780	C	GLN	P	224	100.773	-3.172	40.239	1.00157.57	P
ATOM	28781	O	GLN	P	224	101.509	-3.864	39.531	1.00157.71	P
ATOM	28782	N	LEU	P	225	99.650	-2.613	39.800	1.00155.03	P
ATOM	28783	CA	LEU	P	225	99.168	-2.772	38.432	1.00151.94	P
ATOM	28784	CB	LEU	P	225	97.916	-1.914	38.227	1.00153.15	P
ATOM	28785	CG	LEU	P	225	96.935	-1.854	39.407	1.00154.26	P
ATOM	28786	CD1	LEU	P	225	95.707	-1.056	38.999	1.00154.11	P
ATOM	28787	CD2	LEU	P	225	96.538	-3.259	39.844	1.00154.08	P
ATOM	28788	C	LEU	P	225	100.230	-2.394	37.402	1.00148.71	P
ATOM	28789	O	LEU	P	225	101.274	-1.839	37.746	1.00149.00	P
ATOM	28790	N	THR	P	226	99.960	-2.695	36.136	1.00144.70	P
ATOM	28791	CA	THR	P	226	100.903	-2.386	35.069	1.00141.35	P
ATOM	28792	CB	THR	P	226	102.160	-3.269	35.168	1.00140.75	P
ATOM	28793	OG1	THR	P	226	102.944	-3.112	33.981	1.00139.09	P
ATOM	28794	CG2	THR	P	226	101.779	-4.731	35.331	1.00139.51	P
ATOM	28795	C	THR	P	226	100.322	-2.549	33.671	1.00139.88	P
ATOM	28796	O	THR	P	226	99.953	-3.650	33.261	1.00139.70	P
ATOM	28797	N	ARG	P	227	100.250	-1.442	32.940	1.00138.53	P
ATOM	28798	CA	ARG	P	227	99.729	-1.457	31.581	1.00137.67	P
ATOM	28799	CB	ARG	P	227	99.204	-0.072	31.197	1.00137.81	P
ATOM	28800	CG	ARG	P	227	100.122	1.079	31.577	1.00137.13	P
ATOM	28801	CD	ARG	P	227	99.500	2.416	31.196	1.00137.73	P
ATOM	28802	NE	ARG	P	227	99.951	3.504	32.061	1.00137.20	P
ATOM	28803	CZ	ARG	P	227	101.197	3.960	32.114	1.00136.41	P
ATOM	28804	NH1	ARG	P	227	101.502	4.950	32.939	1.00136.66	P
ATOM	28805	NH2	ARG	P	227	102.133	3.435	31.336	1.00136.55	P
ATOM	28806	C	ARG	P	227	100.815	-1.885	30.607	1.00137.67	P
ATOM	28807	O	ARG	P	227	101.569	-1.055	30.098	1.00137.90	P
ATOM	28808	N	ASN	P	228	100.885	-3.188	30.353	1.00137.77	P
ATOM	28809	CA	ASN	P	228	101.881	-3.753	29.448	1.00137.45	P
ATOM	28810	CB	ASN	P	228	101.603	-3.321	28.005	1.00136.27	P
ATOM	28811	CG	ASN	P	228	100.496	-4.129	27.361	1.00135.48	P
ATOM	28812	OD1	ASN	P	228	100.205	-3.967	26.177	1.00135.03	P
ATOM	28813	ND2	ASN	P	228	99.875	-5.010	28.138	1.00135.43	P
ATOM	28814	C	ASN	P	228	103.311	-3.378	29.826	1.00136.85	P
ATOM	28815	O	ASN	P	228	103.955	-2.576	29.149	1.00136.28	P
ATOM	28816	N	GLY	P	229	103.800	-3.971	30.910	1.00136.47	P
ATOM	28817	CA	GLY	P	229	105.151	-3.698	31.361	1.00136.52	P
ATOM	28818	C	GLY	P	229	105.285	-2.432	32.185	1.00136.72	P
ATOM	28819	O	GLY	P	229	105.842	-2.455	33.283	1.00137.21	P
ATOM	28820	N	THR	P	230	104.779	-1.321	31.659	1.00136.44	P
ATOM	28821	CA	THR	P	230	104.860	-0.045	32.361	1.00135.76	P
ATOM	28822	CB	THR	P	230	104.472	1.134	31.434	1.00136.11	P
ATOM	28823	OG1	THR	P	230	105.206	1.048	30.205	1.00134.34	P
ATOM	28824	CG2	THR	P	230	104.793	2.463	32.106	1.00136.01	P
ATOM	28825	C	THR	P	230	103.927	-0.042	33.569	1.00134.94	P
ATOM	28826	O	THR	P	230	102.715	0.101	33.421	1.00135.87	P
ATOM	28827	N	ILE	P	231	104.491	-0.213	34.760	1.00133.96	P
ATOM	28828	CA	ILE	P	231	103.687	-0.214	35.976	1.00134.05	P
ATOM	28829	CB	ILE	P	231	104.507	-0.711	37.200	1.00134.07	P
ATOM	28830	CG2	ILE	P	231	103.803	-0.335	38.496	1.00133.90	P
ATOM	28831	CG1	ILE	P	231	104.697	-2.230	37.115	1.00133.56	P
ATOM	28832	CD1	ILE	P	231	105.410	-2.847	38.307	1.00130.87	P
ATOM	28833	C	ILE	P	231	103.155	1.193	36.244	1.00134.53	P
ATOM	28834	O	ILE	P	231	103.743	2.188	35.813	1.00134.23	P
ATOM	28835	N	ILE	P	232	102.032	1.268	36.952	1.00134.74	P

ATOM	28836	CA	ILE	P	232	101.409	2.545	37.266	1.00133.61	P
ATOM	28837	CB	ILE	P	232	100.004	2.645	36.634	1.00134.19	P
ATOM	28838	CG2	ILE	P	232	99.427	4.038	36.863	1.00135.37	P
ATOM	28839	CG1	ILE	P	232	100.082	2.347	35.135	1.00134.07	P
ATOM	28840	CD1	ILE	P	232	98.731	2.262	34.466	1.00134.62	P
ATOM	28841	C	ILE	P	232	101.265	2.756	38.769	1.00131.83	P
ATOM	28842	O	ILE	P	232	100.480	2.075	39.430	1.00131.74	P
ATOM	28843	N	PRO	P	233	102.037	3.696	39.331	1.00130.41	P
ATOM	28844	CD	PRO	P	233	103.173	4.389	38.695	1.00129.70	P
ATOM	28845	CA	PRO	P	233	101.977	3.991	40.767	1.00128.77	P
ATOM	28846	CB	PRO	P	233	103.298	4.710	41.021	1.00130.02	P
ATOM	28847	CG	PRO	P	233	103.533	5.432	39.725	1.00130.33	P
ATOM	28848	C	PRO	P	233	100.759	4.863	41.083	1.00126.55	P
ATOM	28849	O	PRO	P	233	100.205	5.505	40.192	1.00126.14	P
ATOM	28850	N	ALA	P	234	100.343	4.882	42.346	1.00124.46	P
ATOM	28851	CA	ALA	P	234	99.185	5.673	42.762	1.00123.37	P
ATOM	28852	CB	ALA	P	234	98.974	5.528	44.264	1.00122.82	P
ATOM	28853	C	ALA	P	234	99.314	7.154	42.397	1.00122.87	P
ATOM	28854	O	ALA	P	234	100.393	7.619	42.035	1.00124.84	P
ATOM	28855	N	ASN	P	235	98.204	7.884	42.491	1.00120.20	P
ATOM	28856	CA	ASN	P	235	98.163	9.318	42.189	1.00116.56	P
ATOM	28857	CB	ASN	P	235	98.678	10.114	43.393	1.00113.69	P
ATOM	28858	CG	ASN	P	235	97.738	10.042	44.583	1.00110.97	P
ATOM	28859	OD1	ASN	P	235	96.775	10.804	44.679	1.00110.27	P
ATOM	28860	ND2	ASN	P	235	98.005	9.110	45.488	1.00109.75	P
ATOM	28861	C	ASN	P	235	98.941	9.714	40.936	1.00115.21	P
ATOM	28862	O	ASN	P	235	99.338	10.867	40.776	1.00114.44	P
ATOM	28863	N	ASN	P	236	99.149	8.752	40.047	1.00115.80	P
ATOM	28864	CA	ASN	P	236	99.875	9.000	38.811	1.00116.97	P
ATOM	28865	CB	ASN	P	236	100.965	7.941	38.615	1.00121.20	P
ATOM	28866	CG	ASN	P	236	101.789	8.171	37.357	1.00123.94	P
ATOM	28867	OD1	ASN	P	236	102.597	9.102	37.289	1.00123.77	P
ATOM	28868	ND2	ASN	P	236	101.584	7.324	36.351	1.00123.80	P
ATOM	28869	C	ASN	P	236	98.898	8.949	37.646	1.00115.70	P
ATOM	28870	O	ASN	P	236	98.883	7.987	36.878	1.00115.33	P
ATOM	28871	N	THR	P	237	98.074	9.983	37.529	1.00114.79	P
ATOM	28872	CA	THR	P	237	97.095	10.058	36.454	1.00115.91	P
ATOM	28873	CB	THR	P	237	96.535	11.490	36.321	1.00114.93	P
ATOM	28874	OG1	THR	P	237	95.826	11.834	37.517	1.00114.16	P
ATOM	28875	CG2	THR	P	237	95.590	11.592	35.135	1.00114.42	P
ATOM	28876	C	THR	P	237	97.719	9.637	35.128	1.00117.22	P
ATOM	28877	O	THR	P	237	98.872	9.967	34.843	1.00118.11	P
ATOM	28878	N	VAL	P	238	96.961	8.896	34.326	1.00117.17	P
ATOM	28879	CA	VAL	P	238	97.457	8.444	33.037	1.00118.12	P
ATOM	28880	CB	VAL	P	238	97.587	6.911	32.995	1.00117.94	P
ATOM	28881	CG1	VAL	P	238	98.301	6.486	31.715	1.00118.86	P
ATOM	28882	CG2	VAL	P	238	98.346	6.421	34.217	1.00117.47	P
ATOM	28883	C	VAL	P	238	96.521	8.898	31.926	1.00119.09	P
ATOM	28884	O	VAL	P	238	95.312	9.019	32.134	1.00117.75	P
ATOM	28885	N	SER	P	239	97.092	9.149	30.749	1.00120.60	P
ATOM	28886	CA	SER	P	239	96.328	9.605	29.593	1.00121.37	P
ATOM	28887	CB	SER	P	239	97.260	10.263	28.569	1.00120.58	P
ATOM	28888	OG	SER	P	239	96.533	10.710	27.435	1.00119.45	P
ATOM	28889	C	SER	P	239	95.541	8.494	28.909	1.00122.26	P
ATOM	28890	O	SER	P	239	95.841	7.309	29.056	1.00123.04	P
ATOM	28891	N	LEU	P	240	94.527	8.900	28.155	1.00122.45	P
ATOM	28892	CA	LEU	P	240	93.677	7.975	27.426	1.00121.87	P
ATOM	28893	CB	LEU	P	240	92.417	7.674	28.239	1.00120.87	P

ATOM	28894	CG	LEU	P	240	92.682	7.049	29.613	1.00120.19	P
ATOM	28895	CD1	LEU	P	240	91.417	7.063	30.450	1.00118.80	P
ATOM	28896	CD2	LEU	P	240	93.202	5.632	29.432	1.00120.06	P
ATOM	28897	C	LEU	P	240	93.319	8.663	26.119	1.00122.34	P
ATOM	28898	O	LEU	P	240	93.297	8.039	25.061	1.00123.25	P
ATOM	28899	N	GLY	P	241	93.052	9.963	26.207	1.00122.41	P
ATOM	28900	CA	GLY	P	241	92.714	10.743	25.031	1.00122.23	P
ATOM	28901	C	GLY	P	241	91.519	10.247	24.242	1.00122.26	P
ATOM	28902	O	GLY	P	241	90.401	10.193	24.756	1.00121.04	P
ATOM	28903	N	ALA	P	242	91.760	9.891	22.983	1.00123.19	P
ATOM	28904	CA	ALA	P	242	90.712	9.402	22.094	1.00123.44	P
ATOM	28905	CB	ALA	P	242	91.313	9.018	20.745	1.00122.71	P
ATOM	28906	C	ALA	P	242	89.953	8.216	22.680	1.00123.56	P
ATOM	28907	O	ALA	P	242	90.394	7.069	22.567	1.00124.59	P
ATOM	28908	N	VAL	P	243	88.811	8.501	23.302	1.00122.51	P
ATOM	28909	CA	VAL	P	243	87.970	7.466	23.899	1.00121.43	P
ATOM	28910	CB	VAL	P	243	88.052	7.495	25.435	1.00117.61	P
ATOM	28911	CG1	VAL	P	243	87.257	6.338	26.016	1.00113.77	P
ATOM	28912	CG2	VAL	P	243	89.500	7.423	25.875	1.00115.63	P
ATOM	28913	C	VAL	P	243	86.510	7.654	23.477	1.00123.26	P
ATOM	28914	O	VAL	P	243	85.719	8.274	24.192	1.00123.86	P
ATOM	28915	N	GLY	P	244	86.163	7.111	22.312	1.00124.30	P
ATOM	28916	CA	GLY	P	244	84.809	7.234	21.804	1.00124.77	P
ATOM	28917	C	GLY	P	244	83.958	5.991	21.977	1.00125.15	P
ATOM	28918	O	GLY	P	244	83.720	5.550	23.099	1.00123.93	P
ATOM	28919	N	THR	P	245	83.500	5.429	20.860	1.00127.14	P
ATOM	28920	CA	THR	P	245	82.653	4.235	20.878	1.00129.24	P
ATOM	28921	CB	THR	P	245	81.714	4.196	19.648	1.00129.46	P
ATOM	28922	OG1	THR	P	245	82.496	4.184	18.446	1.00128.03	P
ATOM	28923	CG2	THR	P	245	80.792	5.408	19.643	1.00127.55	P
ATOM	28924	C	THR	P	245	83.444	2.928	20.915	1.00130.23	P
ATOM	28925	O	THR	P	245	82.920	1.892	21.328	1.00130.49	P
ATOM	28926	N	SER	P	246	84.699	2.979	20.476	1.00130.44	P
ATOM	28927	CA	SER	P	246	85.561	1.801	20.469	1.00129.91	P
ATOM	28928	CB	SER	P	246	86.744	2.030	19.531	1.00128.72	P
ATOM	28929	OG	SER	P	246	86.295	2.420	18.246	1.00126.50	P
ATOM	28930	C	SER	P	246	86.071	1.525	21.882	1.00130.66	P
ATOM	28931	O	SER	P	246	87.086	2.085	22.302	1.00130.63	P
ATOM	28932	N	ALA	P	247	85.360	0.664	22.607	1.00131.03	P
ATOM	28933	CA	ALA	P	247	85.716	0.312	23.980	1.00131.83	P
ATOM	28934	CB	ALA	P	247	84.931	-0.916	24.418	1.00130.84	P
ATOM	28935	C	ALA	P	247	87.211	0.064	24.156	1.00132.65	P
ATOM	28936	O	ALA	P	247	87.687	-1.053	23.955	1.00131.87	P
ATOM	28937	N	VAL	P	248	87.942	1.108	24.541	1.00134.41	P
ATOM	28938	CA	VAL	P	248	89.387	1.013	24.748	1.00135.28	P
ATOM	28939	CB	VAL	P	248	90.053	2.420	24.734	1.00134.36	P
ATOM	28940	CG1	VAL	P	248	91.566	2.282	24.829	1.00133.09	P
ATOM	28941	CG2	VAL	P	248	89.669	3.177	23.466	1.00131.53	P
ATOM	28942	C	VAL	P	248	89.697	0.331	26.082	1.00136.15	P
ATOM	28943	O	VAL	P	248	89.079	0.639	27.103	1.00135.32	P
ATOM	28944	N	SER	P	249	90.652	-0.598	26.066	1.00137.81	P
ATOM	28945	CA	SER	P	249	91.040	-1.325	27.274	1.00139.38	P
ATOM	28946	CB	SER	P	249	91.345	-2.792	26.939	1.00137.51	P
ATOM	28947	OG	SER	P	249	91.524	-3.564	28.116	1.00131.31	P
ATOM	28948	C	SER	P	249	92.262	-0.671	27.922	1.00141.89	P
ATOM	28949	O	SER	P	249	93.002	0.071	27.268	1.00142.72	P
ATOM	28950	N	LEU	P	250	92.468	-0.955	29.207	1.00142.91	P
ATOM	28951	CA	LEU	P	250	93.584	-0.388	29.962	1.00142.94	P

ATOM	28952	CB	LEU	P	250	93.176	-0.205	31.427	1.00141.33	P
ATOM	28953	CG	LEU	P	250	92.051	0.792	31.706	1.00139.95	P
ATOM	28954	CD1	LEU	P	250	91.628	0.696	33.158	1.00139.01	P
ATOM	28955	CD2	LEU	P	250	92.519	2.199	31.374	1.00139.16	P
ATOM	28956	C	LEU	P	250	94.866	-1.213	29.896	1.00143.68	P
ATOM	28957	O	LEU	P	250	95.966	-0.666	29.962	1.00143.41	P
ATOM	28958	N	GLY	P	251	94.724	-2.528	29.770	1.00145.01	P
ATOM	28959	CA	GLY	P	251	95.891	-3.388	29.712	1.00145.96	P
ATOM	28960	C	GLY	P	251	96.492	-3.540	31.093	1.00146.75	P
ATOM	28961	O	GLY	P	251	97.696	-3.752	31.247	1.00147.04	P
ATOM	28962	N	LEU	P	252	95.639	-3.427	32.104	1.00147.34	P
ATOM	28963	CA	LEU	P	252	96.063	-3.548	33.490	1.00148.58	P
ATOM	28964	CB	LEU	P	252	94.927	-3.121	34.417	1.00147.46	P
ATOM	28965	CG	LEU	P	252	94.268	-1.787	34.073	1.00146.56	P
ATOM	28966	CD1	LEU	P	252	93.192	-1.491	35.096	1.00147.33	P
ATOM	28967	CD2	LEU	P	252	95.306	-0.676	34.049	1.00146.67	P
ATOM	28968	C	LEU	P	252	96.476	-4.977	33.816	1.00150.35	P
ATOM	28969	O	LEU	P	252	95.737	-5.925	33.543	1.00151.25	P
ATOM	28970	N	THR	P	253	97.658	-5.127	34.404	1.00151.78	P
ATOM	28971	CA	THR	P	253	98.168	-6.443	34.768	1.00152.94	P
ATOM	28972	CB	THR	P	253	99.445	-6.781	33.978	1.00151.85	P
ATOM	28973	OG1	THR	P	253	99.265	-6.427	32.601	1.00150.89	P
ATOM	28974	CG2	THR	P	253	99.747	-8.269	34.074	1.00150.81	P
ATOM	28975	C	THR	P	253	98.491	-6.479	36.259	1.00154.54	P
ATOM	28976	O	THR	P	253	99.653	-6.366	36.651	1.00154.78	P
ATOM	28977	N	ALA	P	254	97.457	-6.628	37.085	1.00156.03	P
ATOM	28978	CA	ALA	P	254	97.626	-6.676	38.535	1.00157.66	P
ATOM	28979	CB	ALA	P	254	96.290	-6.972	39.207	1.00155.71	P
ATOM	28980	C	ALA	P	254	98.653	-7.737	38.917	1.00159.73	P
ATOM	28981	O	ALA	P	254	98.368	-8.934	38.863	1.00159.91	P
ATOM	28982	N	ASN	P	255	99.848	-7.291	39.298	1.00161.97	P
ATOM	28983	CA	ASN	P	255	100.927	-8.200	39.680	1.00163.72	P
ATOM	28984	CB	ASN	P	255	102.194	-7.892	38.869	1.00162.76	P
ATOM	28985	CG	ASN	P	255	102.022	-8.162	37.382	1.00161.33	P
ATOM	28986	OD1	ASN	P	255	102.943	-7.956	36.593	1.00158.96	P
ATOM	28987	ND2	ASN	P	255	100.840	-8.628	36.996	1.00162.08	P
ATOM	28988	C	ASN	P	255	101.250	-8.131	41.171	1.00165.52	P
ATOM	28989	O	ASN	P	255	100.754	-7.258	41.887	1.00164.92	P
ATOM	28990	N	TYR	P	256	102.085	-9.063	41.627	1.00168.32	P
ATOM	28991	CA	TYR	P	256	102.492	-9.136	43.029	1.00170.59	P
ATOM	28992	CB	TYR	P	256	103.102	-10.512	43.332	1.00173.04	P
ATOM	28993	CG	TYR	P	256	102.087	-11.576	43.700	1.00175.32	P
ATOM	28994	CD1	TYR	P	256	101.052	-11.917	42.828	1.00176.11	P
ATOM	28995	CE1	TYR	P	256	100.104	-12.882	43.176	1.00176.63	P
ATOM	28996	CD2	TYR	P	256	102.151	-12.230	44.932	1.00175.88	P
ATOM	28997	CE2	TYR	P	256	101.206	-13.197	45.288	1.00176.71	P
ATOM	28998	CZ	TYR	P	256	100.185	-13.516	44.406	1.00176.75	P
ATOM	28999	OH	TYR	P	256	99.242	-14.459	44.754	1.00176.65	P
ATOM	29000	C	TYR	P	256	103.483	-8.041	43.409	1.00170.83	P
ATOM	29001	O	TYR	P	256	104.426	-7.758	42.668	1.00170.47	P
ATOM	29002	N	ALA	P	257	103.265	-7.437	44.575	1.00171.62	P
ATOM	29003	CA	ALA	P	257	104.124	-6.365	45.068	1.00172.61	P
ATOM	29004	CB	ALA	P	257	103.300	-5.098	45.279	1.00172.20	P
ATOM	29005	C	ALA	P	257	104.845	-6.739	46.361	1.00173.26	P
ATOM	29006	O	ALA	P	257	104.293	-6.607	47.455	1.00172.87	P
ATOM	29007	N	ARG	P	258	106.084	-7.202	46.224	1.00174.50	P
ATOM	29008	CA	ARG	P	258	106.907	-7.589	47.367	1.00175.46	P
ATOM	29009	CB	ARG	P	258	107.991	-8.573	46.908	1.00176.25	P

ATOM	29010	CG	ARG	P	258	108.845	-9.166	48.017	1.00176.11	P
ATOM	29011	CD	ARG	P	258	109.762	-10.249	47.461	1.00176.19	P
ATOM	29012	NE	ARG	P	258	110.689	-10.768	48.463	1.00176.72	P
ATOM	29013	CZ	ARG	P	258	111.559	-11.749	48.241	1.00177.02	P
ATOM	29014	NH1	ARG	P	258	112.366	-12.156	49.212	1.00176.60	P
ATOM	29015	NH2	ARG	P	258	111.620	-12.329	47.050	1.00176.66	P
ATOM	29016	C	ARG	P	258	107.536	-6.319	47.938	1.00175.97	P
ATOM	29017	O	ARG	P	258	108.037	-5.480	47.187	1.00175.97	P
ATOM	29018	N	THR	P	259	107.507	-6.175	49.260	1.00176.55	P
ATOM	29019	CA	THR	P	259	108.056	-4.986	49.907	1.00177.34	P
ATOM	29020	CB	THR	P	259	107.109	-4.483	51.016	1.00176.95	P
ATOM	29021	OG1	THR	P	259	107.002	-5.475	52.043	1.00175.64	P
ATOM	29022	CG2	THR	P	259	105.728	-4.201	50.446	1.00176.53	P
ATOM	29023	C	THR	P	259	109.452	-5.168	50.507	1.00178.55	P
ATOM	29024	O	THR	P	259	110.439	-5.284	49.780	1.00178.39	P
ATOM	29025	N	GLY	P	260	109.523	-5.180	51.836	1.00179.89	P
ATOM	29026	CA	GLY	P	260	110.793	-5.333	52.524	1.00180.99	P
ATOM	29027	C	GLY	P	260	111.595	-6.542	52.084	1.00181.83	P
ATOM	29028	O	GLY	P	260	112.640	-6.399	51.451	1.00182.24	P
ATOM	29029	N	GLY	P	261	111.111	-7.733	52.423	1.00182.43	P
ATOM	29030	CA	GLY	P	261	111.809	-8.950	52.045	1.00183.14	P
ATOM	29031	C	GLY	P	261	110.958	-10.194	52.216	1.00183.66	P
ATOM	29032	O	GLY	P	261	110.765	-10.962	51.274	1.00183.88	P
ATOM	29033	N	GLN	P	262	110.448	-10.390	53.426	1.00184.00	P
ATOM	29034	CA	GLN	P	262	109.609	-11.541	53.739	1.00184.79	P
ATOM	29035	CB	GLN	P	262	109.179	-11.475	55.209	1.00184.93	P
ATOM	29036	CG	GLN	P	262	108.229	-12.579	55.655	1.00184.91	P
ATOM	29037	CD	GLN	P	262	108.880	-13.947	55.699	1.00184.56	P
ATOM	29038	OE1	GLN	P	262	108.238	-14.937	56.047	1.00184.52	P
ATOM	29039	NE2	GLN	P	262	110.160	-14.010	55.348	1.00184.54	P
ATOM	29040	C	GLN	P	262	108.373	-11.595	52.840	1.00185.42	P
ATOM	29041	O	GLN	P	262	107.902	-10.564	52.359	1.00185.84	P
ATOM	29042	N	VAL	P	263	107.863	-12.803	52.612	1.00185.62	P
ATOM	29043	CA	VAL	P	263	106.670	-13.014	51.790	1.00185.32	P
ATOM	29044	CB	VAL	P	263	107.040	-13.393	50.332	1.00185.00	P
ATOM	29045	CG1	VAL	P	263	105.786	-13.434	49.468	1.00184.27	P
ATOM	29046	CG2	VAL	P	263	108.038	-12.396	49.767	1.00184.48	P
ATOM	29047	C	VAL	P	263	105.859	-14.153	52.416	1.00185.17	P
ATOM	29048	O	VAL	P	263	105.567	-15.159	51.766	1.00185.28	P
ATOM	29049	N	THR	P	264	105.504	-13.976	53.687	1.00184.78	P
ATOM	29050	CA	THR	P	264	104.746	-14.963	54.454	1.00184.12	P
ATOM	29051	CB	THR	P	264	104.417	-14.417	55.866	1.00183.51	P
ATOM	29052	OG1	THR	P	264	105.574	-13.768	56.407	1.00182.07	P
ATOM	29053	CG2	THR	P	264	104.015	-15.549	56.802	1.00182.74	P
ATOM	29054	C	THR	P	264	103.444	-15.386	53.770	1.00184.26	P
ATOM	29055	O	THR	P	264	103.158	-14.982	52.642	1.00184.16	P
ATOM	29056	N	ALA	P	265	102.662	-16.208	54.466	1.00184.29	P
ATOM	29057	CA	ALA	P	265	101.392	-16.701	53.948	1.00184.27	P
ATOM	29058	CB	ALA	P	265	101.223	-18.171	54.311	1.00184.08	P
ATOM	29059	C	ALA	P	265	100.218	-15.892	54.491	1.00184.23	P
ATOM	29060	O	ALA	P	265	100.250	-15.421	55.630	1.00183.87	P
ATOM	29061	N	GLY	P	266	99.183	-15.737	53.669	1.00184.15	P
ATOM	29062	CA	GLY	P	266	98.009	-14.988	54.081	1.00183.81	P
ATOM	29063	C	GLY	P	266	97.056	-14.704	52.933	1.00183.42	P
ATOM	29064	O	GLY	P	266	96.723	-15.601	52.157	1.00183.72	P
ATOM	29065	N	ASN	P	267	96.617	-13.452	52.823	1.00182.64	P
ATOM	29066	CA	ASN	P	267	95.695	-13.043	51.766	1.00181.14	P
ATOM	29067	CB	ASN	P	267	94.378	-12.545	52.372	1.00180.63	P

ATOM	29068	CG	ASN	P	267	93.547	-13.662	52.962	1.00179.66	P
ATOM	29069	OD1	ASN	P	267	92.528	-13.419	53.607	1.00179.22	P
ATOM	29070	ND2	ASN	P	267	93.972	-14.898	52.734	1.00179.16	P
ATOM	29071	C	ASN	P	267	96.265	-11.947	50.872	1.00180.05	P
ATOM	29072	O	ASN	P	267	96.987	-11.065	51.332	1.00180.26	P
ATOM	29073	N	VAL	P	268	95.934	-12.014	49.586	1.00178.63	P
ATOM	29074	CA	VAL	P	268	96.370	-11.016	48.612	1.00176.89	P
ATOM	29075	CB	VAL	P	268	96.933	-11.685	47.327	1.00176.32	P
ATOM	29076	CG1	VAL	P	268	97.409	-10.628	46.347	1.00175.55	P
ATOM	29077	CG2	VAL	P	268	98.075	-12.620	47.685	1.00175.16	P
ATOM	29078	C	VAL	P	268	95.122	-10.197	48.257	1.00175.95	P
ATOM	29079	O	VAL	P	268	94.657	-10.213	47.115	1.00175.76	P
ATOM	29080	N	GLN	P	269	94.586	-9.483	49.244	1.00175.02	P
ATOM	29081	CA	GLN	P	269	93.380	-8.684	49.055	1.00174.00	P
ATOM	29082	CB	GLN	P	269	92.326	-9.137	50.067	1.00172.78	P
ATOM	29083	CG	GLN	P	269	92.131	-10.654	50.116	1.00170.28	P
ATOM	29084	CD	GLN	P	269	91.006	-11.066	51.049	1.00168.76	P
ATOM	29085	OE1	GLN	P	269	89.848	-10.710	50.832	1.00168.23	P
ATOM	29086	NE2	GLN	P	269	91.342	-11.813	52.095	1.00167.65	P
ATOM	29087	C	GLN	P	269	93.628	-7.178	49.192	1.00173.78	P
ATOM	29088	O	GLN	P	269	94.081	-6.701	50.231	1.00173.76	P
ATOM	29089	N	SER	P	270	93.321	-6.440	48.130	1.00173.64	P
ATOM	29090	CA	SER	P	270	93.496	-4.991	48.110	1.00173.08	P
ATOM	29091	CB	SER	P	270	94.787	-4.622	47.368	1.00172.61	P
ATOM	29092	OG	SER	P	270	94.938	-3.218	47.259	1.00170.94	P
ATOM	29093	C	SER	P	270	92.308	-4.299	47.449	1.00172.84	P
ATOM	29094	O	SER	P	270	91.508	-4.939	46.762	1.00172.98	P
ATOM	29095	N	ILE	P	271	92.202	-2.989	47.662	1.00172.25	P
ATOM	29096	CA	ILE	P	271	91.119	-2.192	47.089	1.00170.26	P
ATOM	29097	CB	ILE	P	271	90.055	-1.803	48.159	1.00170.36	P
ATOM	29098	CG2	ILE	P	271	88.929	-1.018	47.504	1.00170.24	P
ATOM	29099	CG1	ILE	P	271	89.482	-3.054	48.832	1.00169.62	P
ATOM	29100	CD1	ILE	P	271	90.379	-3.683	49.886	1.00167.50	P
ATOM	29101	C	ILE	P	271	91.676	-0.907	46.458	1.00167.81	P
ATOM	29102	O	ILE	P	271	91.686	0.158	47.085	1.00167.20	P
ATOM	29103	N	ILE	P	272	92.134	-1.021	45.213	1.00164.84	P
ATOM	29104	CA	ILE	P	272	92.703	0.109	44.480	1.00161.31	P
ATOM	29105	CB	ILE	P	272	93.745	-0.378	43.443	1.00160.97	P
ATOM	29106	CG2	ILE	P	272	94.437	0.817	42.794	1.00160.21	P
ATOM	29107	CG1	ILE	P	272	94.774	-1.287	44.126	1.00160.34	P
ATOM	29108	CD1	ILE	P	272	95.752	-1.936	43.167	1.00160.25	P
ATOM	29109	C	ILE	P	272	91.621	0.903	43.747	1.00158.69	P
ATOM	29110	O	ILE	P	272	91.235	0.559	42.628	1.00158.92	P
ATOM	29111	N	GLY	P	273	91.141	1.971	44.379	1.00154.85	P
ATOM	29112	CA	GLY	P	273	90.110	2.791	43.767	1.00149.95	P
ATOM	29113	C	GLY	P	273	90.569	3.493	42.503	1.00145.76	P
ATOM	29114	O	GLY	P	273	90.970	4.655	42.544	1.00146.69	P
ATOM	29115	N	VAL	P	274	90.510	2.792	41.377	1.00140.53	P
ATOM	29116	CA	VAL	P	274	90.931	3.368	40.108	1.00136.41	P
ATOM	29117	CB	VAL	P	274	90.899	2.316	38.989	1.00135.96	P
ATOM	29118	CG1	VAL	P	274	91.380	2.929	37.686	1.00135.96	P
ATOM	29119	CG2	VAL	P	274	91.764	1.131	39.373	1.00135.79	P
ATOM	29120	C	VAL	P	274	90.036	4.537	39.715	1.00133.60	P
ATOM	29121	O	VAL	P	274	89.036	4.360	39.021	1.00133.54	P
ATOM	29122	N	THR	P	275	90.410	5.732	40.163	1.00130.29	P
ATOM	29123	CA	THR	P	275	89.647	6.942	39.877	1.00126.15	P
ATOM	29124	CB	THR	P	275	89.975	8.060	40.893	1.00123.01	P
ATOM	29125	OG1	THR	P	275	89.652	7.618	42.216	1.00119.40	P

ATOM	29126	CG2	THR	P	275	89.177	9.313	40.586	1.00120.99	P
ATOM	29127	C	THR	P	275	89.905	7.478	38.471	1.00125.14	P
ATOM	29128	O	THR	P	275	91.020	7.396	37.955	1.00123.05	P
ATOM	29129	N	PHE	P	276	88.854	8.023	37.864	1.00125.74	P
ATOM	29130	CA	PHE	P	276	88.921	8.601	36.525	1.00125.53	P
ATOM	29131	CB	PHE	P	276	87.818	8.022	35.636	1.00122.35	P
ATOM	29132	CG	PHE	P	276	88.095	6.633	35.139	1.00120.60	P
ATOM	29133	CD1	PHE	P	276	88.434	5.612	36.021	1.00119.99	P
ATOM	29134	CD2	PHE	P	276	87.998	6.342	33.782	1.00119.84	P
ATOM	29135	CE1	PHE	P	276	88.673	4.321	35.558	1.00119.56	P
ATOM	29136	CE2	PHE	P	276	88.234	5.055	33.308	1.00119.47	P
ATOM	29137	CZ	PHE	P	276	88.572	4.042	34.198	1.00119.86	P
ATOM	29138	C	PHE	P	276	88.741	10.116	36.615	1.00126.81	P
ATOM	29139	O	PHE	P	276	87.943	10.608	37.417	1.00128.27	P
ATOM	29140	N	VAL	P	277	89.484	10.852	35.794	1.00125.94	P
ATOM	29141	CA	VAL	P	277	89.397	12.307	35.780	1.00124.78	P
ATOM	29142	CB	VAL	P	277	90.782	12.961	36.026	1.00126.11	P
ATOM	29143	CG1	VAL	P	277	90.687	14.473	35.860	1.00126.55	P
ATOM	29144	CG2	VAL	P	277	91.274	12.622	37.425	1.00125.30	P
ATOM	29145	C	VAL	P	277	88.858	12.769	34.433	1.00123.48	P
ATOM	29146	O	VAL	P	277	89.331	12.335	33.381	1.00121.93	P
ATOM	29147	N	TYR	P	278	87.863	13.649	34.471	1.00122.92	P
ATOM	29148	CA	TYR	P	278	87.268	14.150	33.244	1.00122.92	P
ATOM	29149	CB	TYR	P	278	85.746	14.125	33.345	1.00120.75	P
ATOM	29150	CG	TYR	P	278	85.173	12.730	33.284	1.00117.57	P
ATOM	29151	CD1	TYR	P	278	85.192	11.893	34.401	1.00116.54	P
ATOM	29152	CE1	TYR	P	278	84.696	10.590	34.333	1.00115.19	P
ATOM	29153	CD2	TYR	P	278	84.645	12.231	32.096	1.00114.56	P
ATOM	29154	CE2	TYR	P	278	84.150	10.936	32.016	1.00113.83	P
ATOM	29155	CZ	TYR	P	278	84.177	10.117	33.134	1.00114.07	P
ATOM	29156	OH	TYR	P	278	83.690	8.830	33.039	1.00111.94	P
ATOM	29157	C	TYR	P	278	87.738	15.541	32.873	1.00123.32	P
ATOM	29158	O	TYR	P	278	87.862	16.416	33.728	1.00124.04	P
ATOM	29159	N	GLN	P	279	87.991	15.728	31.581	1.00123.86	P
ATOM	29160	CA	GLN	P	279	88.457	17.001	31.048	1.00124.64	P
ATOM	29161	CB	GLN	P	279	89.357	16.751	29.838	1.00126.30	P
ATOM	29162	CG	GLN	P	279	90.022	17.993	29.276	1.00128.26	P
ATOM	29163	CD	GLN	P	279	90.688	17.729	27.938	1.00130.05	P
ATOM	29164	OE1	GLN	P	279	91.375	18.592	27.391	1.00131.32	P
ATOM	29165	NE2	GLN	P	279	90.478	16.531	27.399	1.00130.10	P
ATOM	29166	C	GLN	P	279	87.286	17.887	30.638	1.00124.30	P
ATOM	29167	O	GLN	P	279	87.146	18.978	31.225	1.00124.47	P
ATOM	29168	OXT	GLN	P	279	86.525	17.481	29.736	1.00123.76	P
ATOM	29169	OH2	TIP	W	1	91.515	116.970	218.990	1.00 23.41	W
ATOM	29170	OH2	TIP	W	2	78.845	113.492	202.086	1.00 15.53	W
ATOM	29171	OH2	TIP	W	3	46.613	21.523	111.201	1.00 20.29	W
ATOM	29172	OH2	TIP	W	4	64.214	92.999	196.660	1.00 21.66	W
ATOM	29173	OH2	TIP	W	5	116.884	115.704	165.021	1.00 24.04	W
ATOM	29174	OH2	TIP	W	6	21.196	22.424	57.414	1.00 27.58	W
ATOM	29175	OH2	TIP	W	7	45.142	-4.805	35.173	1.00 27.19	W
ATOM	29176	OH2	TIP	W	8	73.972	45.078	89.079	1.00 29.69	W
ATOM	29177	OH2	TIP	W	9	93.017	143.107	142.818	1.00 27.87	W
ATOM	29178	OH2	TIP	W	10	74.703	156.351	129.111	1.00 27.70	W
ATOM	29179	OH2	TIP	W	11	50.920	74.904	182.952	1.00 25.98	W
ATOM	29180	OH2	TIP	W	12	63.210	-17.947	21.730	1.00 33.27	W
ATOM	29181	OH2	TIP	W	13	87.114	63.193	75.527	1.00 27.37	W
ATOM	29182	OH2	TIP	W	14	24.673	10.003	40.671	1.00 18.08	W
ATOM	29183	OH2	TIP	W	15	59.139	24.859	94.411	1.00 12.73	W

ATOM	29184	OH2	TIP	W	16	64.836	45.233	101.698	1.00	22.61	W
ATOM	29185	OH2	TIP	W	17	113.303	128.346	148.255	1.00	17.52	W
ATOM	29186	OH2	TIP	W	18	45.230	4.334	47.853	1.00	20.34	W
ATOM	29187	OH2	TIP	W	19	82.590	135.595	150.675	1.00	40.70	W
ATOM	29188	OH2	TIP	W	20	73.309	92.996	209.378	1.00	23.66	W
ATOM	29189	OH2	TIP	W	21	92.798	133.815	155.495	1.00	19.04	W
ATOM	29190	OH2	TIP	W	22	35.706	-2.424	34.626	1.00	22.08	W
ATOM	29191	OH2	TIP	W	23	102.344	140.805	142.240	1.00	23.06	W
ATOM	29192	OH2	TIP	W	24	71.557	82.742	204.592	1.00	38.73	W
ATOM	29193	OH2	TIP	W	25	66.338	55.676	96.786	1.00	35.88	W
ATOM	29194	OH2	TIP	W	26	43.531	-4.547	31.029	1.00	24.96	W
ATOM	29195	OH2	TIP	W	27	113.583	106.665	160.322	1.00	52.07	W
ATOM	29196	OH2	TIP	W	28	66.632	102.531	196.075	1.00	18.65	W
ATOM	29197	OH2	TIP	W	29	71.620	35.727	88.259	1.00	21.35	W
ATOM	29198	OH2	TIP	W	30	61.496	93.327	196.332	1.00	30.66	W
ATOM	29199	OH2	TIP	W	31	68.438	95.458	212.474	1.00	47.01	W
ATOM	29200	OH2	TIP	W	32	79.101	114.601	211.309	1.00	29.90	W
ATOM	29201	OH2	TIP	W	33	24.132	31.670	52.582	1.00	54.59	W
ATOM	29202	OH2	TIP	W	34	69.932	42.410	105.031	1.00	38.96	W
ATOM	29203	OH2	TIP	W	35	44.858	-7.540	34.709	1.00	28.27	W
ATOM	29204	OH2	TIP	W	36	42.328	-0.941	50.993	1.00	41.44	W
ATOM	29205	OH2	TIP	W	37	94.685	142.861	138.758	1.00	22.11	W
ATOM	29206	OH2	TIP	W	38	76.818	44.609	88.747	1.00	31.31	W
ATOM	29207	OH2	TIP	W	39	73.721	43.538	84.987	1.00	26.47	W
ATOM	29208	OH2	TIP	W	40	72.871	111.718	204.487	1.00	41.66	W
ATOM	29209	OH2	TIP	W	41	54.537	39.908	95.818	1.00	30.95	W
ATOM	29210	OH2	TIP	W	42	26.431	3.965	42.768	1.00	43.76	W
ATOM	29211	OH2	TIP	W	43	61.529	152.171	106.461	1.00	19.98	W
ATOM	29212	OH2	TIP	W	44	93.364	146.035	142.479	1.00	31.99	W
ATOM	29213	OH2	TIP	W	45	71.347	41.937	84.088	1.00	25.29	W
ATOM	29214	OH2	TIP	W	46	95.612	139.011	158.720	1.00	43.20	W
ATOM	29215	OH2	TIP	W	47	65.160	52.716	164.189	1.00	42.30	W
ATOM	29216	OH2	TIP	W	48	80.792	-11.567	3.259	1.00	28.92	W
ATOM	29217	OH2	TIP	W	49	7.143	-7.270	27.258	1.00	63.00	W
ATOM	29218	OH2	TIP	W	50	80.527	80.790	57.098	1.00	23.99	W
ATOM	29219	OH2	TIP	W	51	39.673	14.478	42.095	1.00	32.07	W
ATOM	29220	OH2	TIP	W	52	64.394	94.801	192.576	1.00	29.16	W
ATOM	29221	OH2	TIP	W	53	107.971	139.642	160.821	1.00	32.06	W
ATOM	29222	OH2	TIP	W	54	23.574	10.309	49.772	1.00	35.21	W
ATOM	29223	OH2	TIP	W	55	21.690	22.147	34.318	1.00	28.96	W
ATOM	29224	OH2	TIP	W	56	62.989	106.857	216.945	1.00	26.28	W
ATOM	29225	OH2	TIP	W	57	57.452	57.312	164.749	1.00	31.30	W
ATOM	29226	OH2	TIP	W	58	131.375	144.870	134.831	1.00	54.18	W
ATOM	29227	OH2	TIP	W	59	65.198	26.790	96.873	1.00	41.38	W
ATOM	29228	OH2	TIP	W	60	31.002	-12.527	41.898	1.00	36.55	W
ATOM	29229	OH2	TIP	W	61	83.459	98.504	203.589	1.00	30.02	W
ATOM	29230	OH2	TIP	W	62	63.409	84.565	170.381	1.00	30.91	W
ATOM	29231	OH2	TIP	W	63	57.402	149.868	110.869	1.00	31.06	W
ATOM	29232	OH2	TIP	W	64	95.938	140.432	137.941	1.00	20.13	W
ATOM	29233	OH2	TIP	W	65	83.129	111.985	194.013	1.00	36.26	W
ATOM	29234	OH2	TIP	W	66	54.867	26.362	86.018	1.00	42.40	W
ATOM	29235	OH2	TIP	W	67	76.455	-13.989	-1.286	1.00	25.95	W
ATOM	29236	OH2	TIP	W	68	111.471	134.088	150.704	1.00	28.33	W
ATOM	29237	OH2	TIP	W	69	79.020	115.015	214.547	1.00	19.78	W
ATOM	29238	OH2	TIP	W	70	85.579	115.306	204.481	1.00	22.68	W
ATOM	29239	OH2	TIP	W	71	116.596	130.003	138.665	1.00	37.11	W
ATOM	29240	OH2	TIP	W	72	31.428	-5.995	55.386	1.00	29.58	W
ATOM	29241	OH2	TIP	W	73	18.360	22.781	41.432	1.00	19.93	W

ATOM	29242	OH2	TIP	W	74	53.491	-5.637	8.861	1.00	25.05	W
ATOM	29243	OH2	TIP	W	75	51.124	-5.572	13.349	1.00	30.24	W
ATOM	29244	OH2	TIP	W	76	81.773	31.207	95.844	1.00	34.20	W
ATOM	29245	OH2	TIP	W	77	54.870	61.707	160.152	1.00	22.83	W
ATOM	29246	OH2	TIP	W	78	84.397	143.949	116.500	1.00	30.79	W
ATOM	29247	OH2	TIP	W	79	21.751	8.160	31.327	1.00	52.50	W
ATOM	29248	OH2	TIP	W	80	74.790	53.743	62.812	1.00	31.35	W
ATOM	29249	OH2	TIP	W	81	23.123	9.964	53.140	1.00	23.17	W
ATOM	29250	OH2	TIP	W	82	82.993	76.565	52.649	1.00	24.10	W
ATOM	29251	OH2	TIP	W	83	98.371	123.751	149.714	1.00	28.97	W
ATOM	29252	OH2	TIP	W	84	56.512	107.192	203.503	1.00	33.43	W
ATOM	29253	OH2	TIP	W	85	107.030	150.828	149.663	1.00	37.31	W
ATOM	29254	OH2	TIP	W	86	58.379	0.931	6.456	1.00	33.04	W
ATOM	29255	OH2	TIP	W	87	119.426	115.451	149.119	1.00	20.80	W
ATOM	29256	OH2	TIP	W	88	18.721	11.172	30.520	1.00	41.76	W
ATOM	29257	OH2	TIP	W	89	61.059	21.697	85.181	1.00	50.63	W
ATOM	29258	OH2	TIP	W	90	51.534	-14.841	23.429	1.00	38.41	W
ATOM	29259	OH2	TIP	W	91	69.823	80.014	167.995	1.00	28.80	W
ATOM	29260	OH2	TIP	W	92	89.156	-17.279	15.493	1.00	40.59	W
ATOM	29261	OH2	TIP	W	93	58.376	74.122	183.711	1.00	31.98	W
ATOM	29262	OH2	TIP	W	94	55.652	2.414	42.773	1.00	48.69	W
ATOM	29263	OH2	TIP	W	95	42.078	-2.194	30.250	1.00	25.98	W
ATOM	29264	OH2	TIP	W	96	66.843	96.128	191.695	1.00	27.08	W
ATOM	29265	OH2	TIP	W	97	59.048	23.726	103.490	1.00	40.30	W
ATOM	29266	OH2	TIP	W	98	37.337	23.852	106.374	1.00	52.91	W
ATOM	29267	OH2	TIP	W	99	113.577	115.840	141.646	1.00	42.29	W
ATOM	29268	OH2	TIP	W	100	64.751	92.324	193.677	1.00	34.42	W
ATOM	29269	OH2	TIP	W	101	85.539	-3.637	2.601	1.00	42.92	W
ATOM	29270	OH2	TIP	W	102	60.106	31.194	97.511	1.00	33.58	W
ATOM	29271	OH2	TIP	W	103	91.021	116.568	195.876	1.00	22.55	W
ATOM	29272	OH2	TIP	W	104	72.610	46.234	85.823	1.00	42.82	W
ATOM	29273	OH2	TIP	W	105	114.465	127.959	157.507	1.00	38.96	W
ATOM	29274	OH2	TIP	W	106	52.497	141.967	110.318	1.00	47.16	W
ATOM	29275	OH2	TIP	W	107	30.000	-1.329	53.229	1.00	44.73	W
ATOM	29276	OH2	TIP	W	108	107.051	129.311	151.318	1.00	35.03	W
ATOM	29277	OH2	TIP	W	109	46.020	-3.921	32.111	1.00	39.62	W
ATOM	29278	OH2	TIP	W	110	53.678	-5.897	12.571	1.00	40.86	W
ATOM	29279	OH2	TIP	W	111	67.517	108.017	214.775	1.00	35.79	W
ATOM	29280	OH2	TIP	W	112	71.693	53.770	60.586	1.00	28.60	W
ATOM	29281	OH2	TIP	W	113	70.472	30.112	106.928	1.00	32.05	W
ATOM	29282	OH2	TIP	W	114	30.829	8.900	43.622	1.00	33.21	W
ATOM	29283	OH2	TIP	W	115	101.251	144.909	156.874	1.00	44.81	W
ATOM	29284	OH2	TIP	W	116	75.158	31.504	109.252	1.00	37.48	W
ATOM	29285	OH2	TIP	W	117	59.158	23.128	106.897	1.00	30.19	W
ATOM	29286	OH2	TIP	W	118	51.857	71.279	177.104	1.00	31.11	W
ATOM	29287	OH2	TIP	W	119	52.375	22.980	96.906	1.00	29.49	W
ATOM	29288	OH2	TIP	W	120	63.388	86.914	174.755	1.00	34.57	W
ATOM	29289	OH2	TIP	W	121	16.515	151.555	166.326	1.00	55.32	W
ATOM	29290	OH2	TIP	W	122	66.360	84.605	168.140	1.00	39.53	W
ATOM	29291	OH2	TIP	W	123	92.246	142.302	139.716	1.00	41.26	W
ATOM	29292	OH2	TIP	W	124	53.788	-2.566	6.713	1.00	34.80	W
ATOM	29293	OH2	TIP	W	125	49.355	-1.946	12.010	1.00	54.92	W
ATOM	29294	OH2	TIP	W	126	91.694	119.811	202.797	1.00	25.19	W
ATOM	29295	OH2	TIP	W	127	69.399	6.761	13.008	1.00	60.74	W
ATOM	29296	OH2	TIP	W	128	76.160	115.744	209.517	1.00	34.37	W
ATOM	29297	OH2	TIP	W	129	35.725	24.010	22.166	1.00	67.36	W
ATOM	29298	OH2	TIP	W	130	88.684	139.126	119.128	1.00	59.50	W
ATOM	29299	OH2	TIP	W	131	84.390	140.540	114.370	1.00	31.71	W

ATOM	29300	OH2	TIP	W	132	56.292	88.263	184.704	1.00	42.83	W
ATOM	29301	OH2	TIP	W	133	66.921	-17.148	15.605	1.00	30.57	W
ATOM	29302	OH2	TIP	W	134	26.201	8.222	48.894	1.00	37.98	W
ATOM	29303	OH2	TIP	W	135	82.710	121.763	112.347	1.00	47.72	W
ATOM	29304	OH2	TIP	W	136	33.754	-9.675	28.274	1.00	27.28	W
ATOM	29305	OH2	TIP	W	137	129.999	-17.612	67.287	1.00	47.04	W
ATOM	29306	OH2	TIP	W	138	79.327	37.539	85.033	1.00	32.42	W
ATOM	29307	OH2	TIP	W	139	50.004	-11.303	40.098	1.00	53.13	W
ATOM	29308	OH2	TIP	W	140	48.693	-0.155	28.698	1.00	42.07	W
ATOM	29309	OH2	TIP	W	141	68.534	89.527	190.214	1.00	42.82	W
ATOM	29310	OH2	TIP	W	142	62.356	131.135	188.468	1.00	57.71	W
ATOM	29311	OH2	TIP	W	143	68.218	58.262	60.335	1.00	33.18	W
ATOM	29312	OH2	TIP	W	144	62.289	101.264	210.691	1.00	38.85	W
ATOM	29313	OH2	TIP	W	145	95.874	118.164	202.582	1.00	37.44	W
ATOM	29314	OH2	TIP	W	146	36.795	-6.638	49.296	1.00	31.85	W
ATOM	29315	OH2	TIP	W	147	45.209	141.299	110.756	1.00	49.72	W
ATOM	29316	OH2	TIP	W	148	115.286	121.555	150.642	1.00	21.36	W
ATOM	29317	OH2	TIP	W	149	50.655	160.106	117.057	1.00	52.11	W
ATOM	29318	OH2	TIP	W	150	65.560	108.066	216.518	1.00	65.16	W
ATOM	29319	OH2	TIP	W	151	81.148	105.407	122.039	1.00	55.14	W
ATOM	29320	OH2	TIP	W	152	70.869	49.299	66.192	1.00	51.97	W
ATOM	29321	OH2	TIP	W	153	66.209	135.057	133.475	1.00	78.28	W
ATOM	29322	OH2	TIP	W	154	54.697	63.970	158.207	1.00	51.43	W
ATOM	29323	OH2	TIP	W	155	79.998	119.288	192.003	1.00	44.59	W
ATOM	29324	OH2	TIP	W	156	86.433	89.160	69.361	1.00	40.91	W
ATOM	29325	OH2	TIP	W	157	74.954	110.537	183.820	1.00	45.64	W
ATOM	29326	OH2	TIP	W	158	115.494	131.130	155.683	1.00	33.81	W
ATOM	29327	OH2	TIP	W	159	56.945	32.568	14.860	1.00	58.13	W
ATOM	29328	OH2	TIP	W	160	20.011	15.346	57.535	1.00	43.85	W
ATOM	29329	OH2	TIP	W	161	58.225	18.847	84.279	1.00	53.39	W
ATOM	29330	OH2	TIP	W	162	67.489	88.824	173.451	1.00	52.72	W
ATOM	29331	OH2	TIP	W	163	78.825	33.852	82.055	1.00	40.75	W
ATOM	29332	OH2	TIP	W	164	57.545	87.993	201.950	1.00	50.11	W
ATOM	29333	OH2	TIP	W	165	75.575	6.762	80.755	1.00	54.62	W
ATOM	29334	OH2	TIP	W	166	106.701	144.415	163.025	1.00	42.32	W
ATOM	29335	OH2	TIP	W	167	111.601	129.901	156.276	1.00	52.86	W
ATOM	29336	OH2	TIP	W	168	115.061	128.348	160.759	1.00	23.23	W
ATOM	29337	OH2	TIP	W	169	77.765	107.359	205.044	1.00	31.19	W
ATOM	29338	OH2	TIP	W	170	87.966	149.661	148.037	1.00	49.72	W
ATOM	29339	OH2	TIP	W	171	86.247	66.972	69.624	1.00	31.39	W
ATOM	29340	OH2	TIP	W	172	63.206	84.498	173.913	1.00	37.86	W
ATOM	29341	OH2	TIP	W	173	61.879	22.592	101.885	1.00	29.43	W
ATOM	29342	OH2	TIP	W	174	72.097	55.304	57.861	1.00	55.50	W
ATOM	29343	OH2	TIP	W	175	39.851	9.410	107.470	1.00	50.69	W
ATOM	29344	OH2	TIP	W	176	77.268	111.804	210.238	1.00	45.95	W
ATOM	29345	OH2	TIP	W	177	64.035	-10.758	22.020	1.00	40.30	W
ATOM	29346	OH2	TIP	W	178	71.084	155.374	123.446	1.00	36.92	W
ATOM	29347	OH2	TIP	W	179	60.892	26.338	102.513	1.00	46.05	W
ATOM	29348	OH2	TIP	W	180	79.760	64.195	75.949	1.00	36.03	W
ATOM	29349	OH2	TIP	W	181	74.529	51.273	67.283	1.00	33.42	W
ATOM	29350	OH2	TIP	W	182	32.312	150.411	176.388	1.00	61.77	W
ATOM	29351	OH2	TIP	W	183	72.464	93.042	56.817	1.00	53.88	W
ATOM	29352	OH2	TIP	W	184	68.798	133.920	115.608	1.00	46.16	W
ATOM	29353	OH2	TIP	W	185	89.303	138.787	136.363	1.00	44.73	W
ATOM	29354	OH2	TIP	W	186	22.805	16.729	43.230	1.00	26.89	W
ATOM	29355	OH2	TIP	W	187	22.558	7.194	47.982	1.00	34.73	W
ATOM	29356	OH2	TIP	W	188	73.893	148.650	129.895	1.00	34.92	W
ATOM	29357	OH2	TIP	W	189	74.336	-14.259	-3.382	1.00	61.45	W

ATOM	29358	OH2	TIP	W	190	59.302	104.257	189.621	1.00	30.92	W
ATOM	29359	OH2	TIP	W	191	79.900	137.402	114.192	1.00	29.11	W
ATOM	29360	OH2	TIP	W	192	134.424	3.009	79.211	1.00	69.21	W
ATOM	29361	OH2	TIP	W	193	60.065	84.097	168.753	1.00	36.07	W
ATOM	29362	OH2	TIP	W	194	51.532	8.237	13.511	1.00	44.41	W
ATOM	29363	OH2	TIP	W	195	119.022	127.161	138.028	1.00	47.77	W
ATOM	29364	OH2	TIP	W	196	69.868	64.192	82.729	1.00	37.35	W
ATOM	29365	OH2	TIP	W	197	78.461	-5.475	-3.389	1.00	54.14	W
ATOM	29366	OH2	TIP	W	198	117.629	-3.072	84.340	1.00	39.00	W
ATOM	29367	OH2	TIP	W	199	85.247	116.007	191.505	1.00	64.44	W
ATOM	29368	OH2	TIP	W	200	92.096	112.186	192.111	1.00	45.02	W
ATOM	29369	OH2	TIP	W	201	22.037	13.863	57.159	1.00	54.38	W
ATOM	29370	OH2	TIP	W	202	37.256	26.654	91.815	1.00	33.57	W
ATOM	29371	OH2	TIP	W	203	111.505	106.332	145.518	1.00	39.38	W
ATOM	29372	OH2	TIP	W	205	75.672	158.015	115.443	1.00	25.20	W
ATOM	29373	OH2	TIP	W	206	62.413	-19.627	7.795	1.00	25.30	W
ATOM	29374	OH2	TIP	W	207	49.219	75.669	169.124	1.00	28.82	W
ATOM	29375	OH2	TIP	W	208	26.591	31.782	38.071	1.00	38.33	W
ATOM	29376	OH2	TIP	W	209	99.212	156.024	154.757	1.00	59.95	W
ATOM	29377	OH2	TIP	W	210	77.095	116.428	192.829	1.00	41.95	W
ATOM	29378	OH2	TIP	W	211	46.320	18.261	95.016	1.00	27.32	W
ATOM	29379	OH2	TIP	W	212	74.988	53.619	66.161	1.00	43.11	W
ATOM	29380	OH2	TIP	W	213	54.414	21.343	111.208	1.00	53.47	W
ATOM	29381	OH2	TIP	W	215	69.261	48.750	82.714	1.00	47.13	W
ATOM	29382	OH2	TIP	W	216	91.375	121.721	200.898	1.00	35.90	W
ATOM	29383	OH2	TIP	W	218	116.965	123.615	165.256	1.00	44.17	W
ATOM	29384	OH2	TIP	W	220	33.518	7.250	49.258	1.00	53.45	W
ATOM	29385	OH2	TIP	W	221	88.905	62.669	61.582	1.00	34.81	W
ATOM	29386	OH2	TIP	W	222	131.697	143.184	138.242	1.00	60.37	W
ATOM	29387	OH2	TIP	W	223	61.119	34.341	102.845	1.00	62.38	W
ATOM	29388	OH2	TIP	W	224	121.386	115.852	147.204	1.00	32.44	W
ATOM	29389	OH2	TIP	W	226	87.021	143.785	121.163	1.00	37.81	W
ATOM	29390	OH2	TIP	W	227	77.033	104.038	210.686	1.00	43.75	W
ATOM	29391	OH2	TIP	W	228	108.287	138.823	147.446	1.00	55.71	W
ATOM	29392	OH2	TIP	W	229	76.649	36.707	68.039	1.00	45.20	W
ATOM	29393	OH2	TIP	W	230	2.683	2.024	3.107	1.00	78.98	W
ATOM	29394	OH2	TIP	W	231	30.246	-0.512	39.948	1.00	46.03	W
ATOM	29395	OH2	TIP	W	232	59.097	60.760	157.930	1.00	36.14	W
ATOM	29396	OH2	TIP	W	233	100.786	111.496	199.755	1.00	39.55	W
ATOM	29397	OH2	TIP	W	234	76.615	63.720	168.149	1.00	50.55	W
ATOM	29398	OH2	TIP	W	235	77.579	125.486	211.538	1.00	30.16	W
ATOM	29399	OH2	TIP	W	236	68.442	108.007	201.383	1.00	51.93	W
ATOM	29400	OH2	TIP	W	237	72.339	29.829	109.034	1.00	64.76	W
ATOM	29401	OH2	TIP	W	238	77.441	80.819	199.311	1.00	48.00	W
ATOM	29402	OH2	TIP	W	239	106.161	-12.434	69.903	1.00	83.66	W
ATOM	29403	OH2	TIP	W	240	103.822	130.157	156.732	1.00	48.92	W
ATOM	29404	OH2	TIP	W	242	36.332	-12.187	32.537	1.00	40.22	W
ATOM	29405	OH2	TIP	W	243	60.438	12.601	103.901	1.00	34.55	W
ATOM	29406	OH2	TIP	W	244	72.850	6.320	85.024	1.00	117.23	W
ATOM	29407	OH2	TIP	W	245	90.287	105.734	192.688	1.00	33.84	W
ATOM	29408	OH2	TIP	W	246	61.820	101.317	175.469	1.00	50.54	W
ATOM	29409	OH2	TIP	W	247	58.111	156.915	111.313	1.00	43.09	W
ATOM	29410	OH2	TIP	W	248	36.738	-7.288	14.281	1.00	41.37	W
ATOM	29411	OH2	TIP	W	249	50.102	58.164	164.863	1.00	54.48	W
ATOM	29412	OH2	TIP	W	250	87.705	80.442	57.809	1.00	58.10	W
ATOM	29413	OH2	TIP	W	251	47.712	32.428	85.102	1.00	37.26	W
ATOM	29414	OH2	TIP	W	252	101.548	145.619	121.804	1.00	40.91	W
ATOM	29415	OH2	TIP	W	253	72.020	117.783	138.263	1.00	47.59	W

ATOM	29416	OH2	TIP	W	254	57.218	8.090	38.182	1.00	46.61	W
ATOM	29417	OH2	TIP	W	256	57.232	104.438	215.389	1.00	46.76	W
ATOM	29418	OH2	TIP	W	257	101.632	150.405	140.212	1.00	41.32	W
ATOM	29419	OH2	TIP	W	258	80.730	34.134	107.824	1.00	41.10	W
ATOM	29420	OH2	TIP	W	259	38.613	8.328	35.698	1.00	33.62	W
ATOM	29421	OH2	TIP	W	260	32.391	21.266	31.396	1.00	38.94	W
ATOM	29422	OH2	TIP	W	261	74.006	139.050	136.536	1.00	40.11	W
ATOM	29423	OH2	TIP	W	262	88.271	125.133	212.676	1.00	44.27	W
ATOM	29424	OH2	TIP	W	263	77.423	-9.540	-3.650	1.00	40.85	W
ATOM	29425	OH2	TIP	W	264	13.322	19.478	51.190	1.00	41.63	W
ATOM	29426	OH2	TIP	W	265	95.265	107.205	151.957	1.00	58.71	W
ATOM	29427	OH2	TIP	W	266	99.659	130.023	143.393	1.00	31.19	W
ATOM	29428	OH2	TIP	W	267	78.121	77.420	50.574	1.00	42.56	W
ATOM	29429	OH2	TIP	W	268	38.098	42.841	98.069	1.00	57.87	W
ATOM	29430	OH2	TIP	W	269	42.504	31.331	43.869	1.00	64.89	W
ATOM	29431	OH2	TIP	W	270	80.758	143.705	136.155	1.00	54.42	W
ATOM	29432	OH2	TIP	W	271	81.406	36.406	86.236	1.00	35.88	W
ATOM	29433	OH2	TIP	W	272	74.645	78.479	50.473	1.00	39.47	W
ATOM	29434	OH2	TIP	W	273	59.591	143.637	104.455	1.00	47.37	W
ATOM	29435	OH2	TIP	W	274	72.644	66.331	82.884	1.00	60.99	W
ATOM	29436	OH2	TIP	W	275	74.029	89.169	49.657	1.00	55.19	W
ATOM	29437	OH2	TIP	W	276	100.199	95.575	205.574	1.00	65.15	W
ATOM	29438	OH2	TIP	W	277	125.252	129.726	157.646	1.00	28.28	W
ATOM	29439	OH2	TIP	W	278	72.308	156.276	118.722	1.00	25.69	W
ATOM	29440	OH2	TIP	W	279	64.045	-0.370	28.877	1.00	38.19	W
ATOM	29441	OH2	TIP	W	280	92.918	-3.076	3.105	1.00	62.81	W
ATOM	29442	OH2	TIP	W	281	61.576	74.648	60.830	1.00	39.45	W
ATOM	29443	OH2	TIP	W	283	78.466	60.057	77.986	1.00	58.95	W
ATOM	29444	OH2	TIP	W	284	28.313	17.392	51.361	1.00	63.01	W
ATOM	29445	OH2	TIP	W	285	91.493	113.844	195.498	1.00	41.73	W
ATOM	29446	OH2	TIP	W	286	80.266	-18.690	3.793	1.00	52.96	W
ATOM	29447	OH2	TIP	W	287	60.603	38.570	89.428	1.00	29.66	W
ATOM	29448	OH2	TIP	W	288	69.814	29.874	93.628	1.00	48.69	W
ATOM	29449	OH2	TIP	W	289	55.716	16.259	97.717	1.00	41.98	W
ATOM	29450	OH2	TIP	W	290	80.937	129.975	145.431	1.00	44.32	W
ATOM	29451	OH2	TIP	W	291	85.473	43.552	86.462	1.00	49.52	W
ATOM	29452	OH2	TIP	W	293	33.948	-11.735	54.156	1.00	36.42	W
ATOM	29453	OH2	TIP	W	294	60.572	147.691	104.098	1.00	44.04	W
ATOM	29454	OH2	TIP	W	295	103.865	140.810	124.854	1.00	67.12	W
ATOM	29455	OH2	TIP	W	296	68.136	73.921	190.438	1.00	42.66	W
ATOM	29456	OH2	TIP	W	297	48.769	143.213	103.391	1.00	40.47	W
ATOM	29457	OH2	TIP	W	298	67.709	132.901	134.685	1.00	63.48	W
ATOM	29458	OH2	TIP	W	299	16.417	13.409	44.040	1.00	31.26	W
ATOM	29459	OH2	TIP	W	300	67.667	139.720	136.281	1.00	68.22	W
ATOM	29460	OH2	TIP	W	301	64.433	-17.256	14.005	1.00	26.21	W
ATOM	29461	OH2	TIP	W	302	63.313	130.532	114.200	1.00	43.62	W
ATOM	29462	OH2	TIP	W	303	77.767	147.495	131.332	1.00	65.54	W
ATOM	29463	OH2	TIP	W	304	12.541	8.564	50.026	1.00	42.95	W
ATOM	29464	OH2	TIP	W	305	57.140	-5.896	28.859	1.00	66.24	W
ATOM	29465	OH2	TIP	W	306	20.144	141.088	191.868	1.00	49.40	W
ATOM	29466	OH2	TIP	W	307	85.604	-10.939	-2.938	1.00	63.34	W
ATOM	29467	OH2	TIP	W	308	109.694	120.827	159.185	1.00	59.58	W
ATOM	29468	OH2	TIP	W	309	79.316	64.793	55.760	1.00	53.06	W
ATOM	29469	OH2	TIP	W	310	56.660	101.858	194.058	1.00	38.19	W
ATOM	29470	OH2	TIP	W	311	63.964	152.371	104.285	1.00	58.42	W
ATOM	29471	OH2	TIP	W	312	55.108	87.906	170.779	1.00	53.35	W
ATOM	29472	OH2	TIP	W	313	59.957	-9.179	24.123	1.00	59.01	W
ATOM	29473	OH2	TIP	W	314	63.662	57.477	158.609	1.00	55.78	W

ATOM	29474	OH2	TIP	W	315	104.972	147.287	163.360	1.00	44.01	W
ATOM	29475	OH2	TIP	W	316	102.319	114.583	130.090	1.00	67.25	W
ATOM	29476	OH2	TIP	W	317	69.709	61.748	85.190	1.00	54.88	W
ATOM	29477	OH2	TIP	W	319	24.397	171.554	184.003	1.00	73.24	W
ATOM	29478	OH2	TIP	W	320	132.720	1.594	80.931	1.00	61.67	W
ATOM	29479	OH2	TIP	W	321	82.214	121.952	205.485	1.00	33.30	W
ATOM	29480	OH2	TIP	W	322	81.679	-19.956	16.131	1.00	48.63	W
ATOM	29481	OH2	TIP	W	323	73.920	69.238	53.829	1.00	65.94	W
ATOM	29482	OH2	TIP	W	324	70.439	69.927	82.458	1.00	62.92	W
ATOM	29483	OH2	TIP	W	325	79.555	85.308	50.394	1.00	43.95	W
ATOM	29484	OH2	TIP	W	326	60.762	2.448	8.575	1.00	36.10	W
ATOM	29485	OH2	TIP	W	327	76.916	62.980	55.826	1.00	63.48	W
ATOM	29486	OH2	TIP	W	328	103.923	24.058	32.389	1.00	66.92	W
ATOM	29487	OH2	TIP	W	329	121.680	124.708	151.826	1.00	44.92	W
ATOM	29488	OH2	TIP	W	330	86.508	109.813	212.856	1.00	51.09	W
ATOM	29489	OH2	TIP	W	331	72.691	85.756	56.623	1.00	49.02	W
ATOM	29490	OH2	TIP	W	332	49.776	13.180	104.959	1.00	40.06	W
ATOM	29491	OH2	TIP	W	333	36.584	23.561	92.705	1.00	52.24	W
ATOM	29492	OH2	TIP	W	334	52.832	94.527	194.016	1.00	44.62	W
ATOM	29493	OH2	TIP	W	335	49.094	155.505	123.589	1.00	40.75	W
ATOM	29494	OH2	TIP	W	336	46.678	16.609	93.080	1.00	36.75	W
ATOM	29495	OH2	TIP	W	337	83.586	74.676	50.397	1.00	58.51	W
ATOM	29496	OH2	TIP	W	338	105.572	116.904	138.883	1.00	52.11	W
ATOM	29497	OH2	TIP	W	339	78.878	-10.021	37.928	1.00	73.79	W
ATOM	29498	OH2	TIP	W	340	77.136	99.643	197.117	1.00	32.73	W
ATOM	29499	OH2	TIP	W	341	16.598	22.444	39.509	1.00	34.80	W
ATOM	29500	OH2	TIP	W	342	50.496	141.691	101.008	1.00	49.40	W
ATOM	29501	OH2	TIP	W	343	121.410	-11.928	58.196	1.00	75.33	W
ATOM	29502	OH2	TIP	W	344	148.062	9.417	91.328	1.00	76.28	W
ATOM	29503	OH2	TIP	W	345	114.706	-33.283	76.350	1.00	57.28	W
ATOM	29504	OH2	TIP	W	346	22.967	142.180	211.735	1.00	70.98	W
ATOM	29505	OH2	TIP	W	347	107.399	-0.882	98.954	1.00	70.37	W
ATOM	29506	OH2	TIP	W	348	43.636	-16.111	32.563	1.00	42.12	W
ATOM	29507	OH2	TIP	W	349	124.659	119.047	158.753	1.00	42.02	W
ATOM	29508	OH2	TIP	W	350	57.812	104.932	210.488	1.00	46.19	W
ATOM	29509	OH2	TIP	W	351	64.769	-10.093	2.019	1.00	40.70	W
ATOM	29510	OH2	TIP	W	352	60.498	105.640	217.290	1.00	46.98	W
ATOM	29511	OH2	TIP	W	353	87.341	-3.536	-6.675	1.00	55.05	W
ATOM	29512	OH2	TIP	W	354	94.042	16.904	38.442	1.00	78.08	W
ATOM	29513	OH2	TIP	W	355	44.070	121.500	146.014	1.00	72.52	W
ATOM	29514	OH2	TIP	W	356	91.207	-12.490	-1.754	1.00	58.04	W
ATOM	29515	OH2	TIP	W	357	58.171	-2.014	46.670	1.00	73.38	W
ATOM	29516	OH2	TIP	W	358	51.605	73.712	175.394	1.00	32.79	W
ATOM	29517	OH2	TIP	W	359	66.185	20.452	30.547	1.00	47.79	W
ATOM	29518	OH2	TIP	W	360	23.709	103.243	193.944	1.00	60.94	W
ATOM	29519	OH2	TIP	W	361	44.270	15.706	113.932	1.00	61.24	W
ATOM	29520	OH2	TIP	W	362	102.539	137.175	131.132	1.00	48.67	W
ATOM	29521	OH2	TIP	W	363	49.988	-12.656	23.254	1.00	43.88	W
ATOM	29522	OH2	TIP	W	364	26.201	23.045	30.540	1.00	39.66	W
ATOM	29523	OH2	TIP	W	365	111.833	115.247	138.265	1.00	43.95	W
ATOM	29524	OH2	TIP	W	366	46.081	26.243	84.324	1.00	38.27	W
ATOM	29525	OH2	TIP	W	367	74.729	105.307	210.923	1.00	52.00	W
ATOM	29526	OH2	TIP	W	368	105.283	132.203	157.194	1.00	55.67	W
ATOM	29527	OH2	TIP	W	369	75.738	36.966	102.850	1.00	40.40	W
ATOM	29528	OH2	TIP	W	370	30.439	19.182	33.274	1.00	56.88	W
ATOM	29529	OH2	TIP	W	371	108.113	141.550	162.702	1.00	74.75	W
ATOM	29530	OH2	TIP	W	372	64.018	36.505	104.855	1.00	49.98	W
ATOM	29531	OH2	TIP	W	373	73.722	101.627	212.831	1.00	38.83	W

ATOM	29532	OH2	TIP	W	374	63.239	32.884	103.501	1.00	61.85	W
ATOM	29533	OH2	TIP	W	375	56.300	15.433	95.101	1.00	38.28	W
ATOM	29534	OH2	TIP	W	376	107.800	119.008	140.826	1.00	59.50	W
ATOM	29535	OH2	TIP	W	377	88.265	82.266	60.554	1.00	40.23	W
ATOM	29536	OH2	TIP	W	378	41.388	6.172	35.172	1.00	37.72	W
ATOM	29537	OH2	TIP	W	379	65.247	71.950	190.837	1.00	53.45	W
ATOM	29538	OH2	TIP	W	380	55.660	75.340	182.283	1.00	60.92	W
ATOM	29539	OH2	TIP	W	381	58.237	106.128	206.514	1.00	45.73	W
ATOM	29540	OH2	TIP	W	382	54.399	82.172	185.303	1.00	48.47	W
ATOM	29541	OH2	TIP	W	383	105.026	129.536	159.503	1.00	55.87	W
ATOM	29542	OH2	TIP	W	384	80.275	33.422	102.874	1.00	34.00	W
ATOM	29543	OH2	TIP	W	385	75.181	96.905	196.565	1.00	36.21	W
ATOM	29544	OH2	TIP	W	386	115.278	127.777	136.745	1.00	43.75	W
ATOM	29545	OH2	TIP	W	387	33.293	-11.151	48.992	1.00	44.43	W
ATOM	29546	OH2	TIP	W	388	58.729	100.477	192.731	1.00	31.34	W
ATOM	29547	OH2	TIP	W	389	81.759	122.762	202.803	1.00	36.59	W
ATOM	29548	OH2	TIP	W	390	38.665	-5.774	13.951	1.00	59.34	W
ATOM	29549	OH2	TIP	W	391	78.033	33.567	109.517	1.00	64.74	W
ATOM	29550	OH2	TIP	W	392	12.152	22.102	51.935	1.00	46.75	W
ATOM	29551	OH2	TIP	W	393	89.436	-4.798	-4.404	1.00	55.03	W
ATOM	29552	OH2	TIP	W	394	72.091	142.178	136.839	1.00	56.86	W
ATOM	29553	OH2	TIP	W	395	104.637	149.289	156.791	1.00	37.68	W
ATOM	29554	OH2	TIP	W	396	61.712	74.815	164.398	1.00	34.66	W
ATOM	29555	OH2	TIP	W	397	88.358	107.806	194.929	1.00	57.44	W
ATOM	29556	OH2	TIP	W	398	83.516	55.961	77.686	1.00	52.03	W
ATOM	29557	OH2	TIP	W	399	84.401	123.107	206.206	1.00	30.26	W
ATOM	29558	OH2	TIP	W	400	74.693	38.380	67.233	1.00	55.90	W
ATOM	29559	OH2	TIP	W	401	26.636	0.674	40.200	1.00	53.31	W
ATOM	29560	OH2	TIP	W	402	73.629	155.767	121.571	1.00	32.71	W
ATOM	29561	OH2	TIP	W	403	69.866	111.179	201.660	1.00	58.21	W
ATOM	29562	OH2	TIP	W	404	66.047	-3.839	29.407	1.00	65.77	W
ATOM	29563	OH2	TIP	W	405	3.139	135.660	187.198	1.00	91.81	W
ATOM	29564	OH2	TIP	W	406	46.905	12.594	106.009	1.00	52.39	W
ATOM	29565	OH2	TIP	W	407	53.979	84.615	170.615	1.00	24.60	W
ATOM	29566	OH2	TIP	W	408	38.030	11.444	52.699	1.00	49.51	W
ATOM	29567	OH2	TIP	W	409	94.503	154.403	140.114	1.00	48.75	W
ATOM	29568	OH2	TIP	W	410	60.756	108.994	218.058	1.00	74.56	W
ATOM	29569	OH2	TIP	W	411	32.050	-14.993	44.300	1.00	52.62	W
ATOM	29570	OH2	TIP	W	412	55.971	-14.644	23.714	1.00	55.81	W
ATOM	29571	OH2	TIP	W	413	42.269	3.053	51.611	1.00	40.23	W
ATOM	29572	OH2	TIP	W	414	86.432	64.524	67.785	1.00	32.90	W
ATOM	29573	OH2	TIP	W	415	95.732	135.268	159.533	1.00	48.73	W
ATOM	29574	OH2	TIP	W	416	81.835	152.886	131.153	1.00	51.92	W
ATOM	29575	OH2	TIP	W	417	53.655	65.449	160.522	1.00	50.05	W
ATOM	29576	OH2	TIP	W	418	49.665	30.541	87.078	1.00	62.29	W
ATOM	29577	OH2	TIP	W	419	70.203	-1.405	28.769	1.00	66.25	W
ATOM	29578	OH2	TIP	W	420	58.380	37.677	106.636	1.00	59.82	W
ATOM	29579	OH2	TIP	W	421	26.199	14.065	32.373	1.00	35.02	W
ATOM	29580	OH2	TIP	W	422	64.788	-20.557	17.685	1.00	43.54	W
ATOM	29581	OH2	TIP	W	423	71.910	95.648	213.146	1.00	47.84	W
ATOM	29582	OH2	TIP	W	424	37.605	22.382	90.004	1.00	41.78	W
ATOM	29583	OH2	TIP	W	425	32.278	-11.527	46.062	1.00	50.68	W
ATOM	29584	OH2	TIP	W	426	37.076	27.233	20.943	1.00	42.81	W
ATOM	29585	OH2	TIP	W	427	79.549	32.111	98.735	1.00	42.50	W
ATOM	29586	OH2	TIP	W	428	63.498	16.700	44.844	1.00	64.00	W
ATOM	29587	OH2	TIP	W	429	79.945	100.486	214.261	1.00	54.23	W
ATOM	29588	OH2	TIP	W	430	63.909	48.851	157.096	1.00	64.17	W
ATOM	29589	OH2	TIP	W	431	125.608	116.413	159.707	1.00	51.82	W

ATOM	29590	OH2	TIP	W	432	63.213	-7.469	2.793	1.00	43.24	W
ATOM	29591	OH2	TIP	W	433	10.474	147.801	184.605	1.00	61.31	W
ATOM	29592	OH2	TIP	W	434	66.529	30.435	85.192	1.00	53.35	W
ATOM	29593	OH2	TIP	W	435	50.922	144.773	104.453	1.00	64.06	W
ATOM	29594	OH2	TIP	W	436	62.357	-14.455	20.429	1.00	60.22	W
ATOM	29595	OH2	TIP	W	437	82.265	36.657	82.485	1.00	49.62	W
ATOM	29596	OH2	TIP	W	438	65.417	153.553	106.822	1.00	53.48	W
ATOM	29597	OH2	TIP	W	439	74.894	77.788	184.494	1.00	59.48	W
ATOM	29598	OH2	TIP	W	440	24.390	6.228	50.615	1.00	59.78	W
ATOM	29599	OH2	TIP	W	441	66.826	60.822	62.663	1.00	41.72	W
ATOM	29600	OH2	TIP	W	442	63.282	60.806	76.698	1.00	55.41	W
ATOM	29601	OH2	TIP	W	443	66.002	42.254	105.475	1.00	37.81	W
ATOM	29602	OH2	TIP	W	444	154.279	31.331	104.325	1.00	81.71	W
ATOM	29603	OH2	TIP	W	445	111.863	124.005	140.086	1.00	37.04	W
ATOM	29604	OH2	TIP	W	446	105.813	150.256	154.297	1.00	44.80	W
ATOM	29605	OH2	TIP	W	447	86.576	130.048	121.021	1.00	47.34	W
ATOM	29606	OH2	TIP	W	448	71.501	107.812	193.047	1.00	59.39	W
ATOM	29607	OH2	TIP	W	449	58.233	107.106	212.984	1.00	56.30	W
ATOM	29608	OH2	TIP	W	450	-10.807	107.116	194.147	1.00	63.39	W
ATOM	29609	OH2	TIP	W	451	104.079	149.990	161.768	1.00	40.36	W
ATOM	29610	OH2	TIP	W	452	62.068	72.111	60.297	1.00	48.84	W
ATOM	29611	OH2	TIP	W	453	121.358	-5.190	98.575	1.00	66.97	W
ATOM	29612	OH2	TIP	W	454	8.209	155.738	175.000	1.00	40.95	W
ATOM	29613	OH2	TIP	W	455	45.509	50.446	88.583	1.00	57.78	W
ATOM	29614	OH2	TIP	W	456	100.172	126.970	160.603	1.00	55.58	W
ATOM	29615	OH2	TIP	W	457	47.973	-13.348	13.286	1.00	47.33	W
ATOM	29616	OH2	TIP	W	458	79.954	73.413	78.227	1.00	79.11	W
ATOM	29617	OH2	TIP	W	459	77.484	130.957	124.153	1.00	75.48	W
ATOM	29618	OH2	TIP	W	461	72.826	87.467	47.002	1.00	46.75	W
ATOM	29619	OH2	TIP	W	462	72.036	5.020	13.366	1.00	59.11	W
ATOM	29620	OH2	TIP	W	463	111.219	137.596	147.323	1.00	41.32	W
ATOM	29621	OH2	TIP	W	464	65.065	50.812	154.760	1.00	46.90	W
ATOM	29622	OH2	TIP	W	465	53.570	13.641	102.178	1.00	51.53	W
ATOM	29623	OH2	TIP	W	466	77.848	54.043	61.240	1.00	33.53	W
ATOM	29624	OH2	TIP	W	467	66.007	131.481	113.923	1.00	74.33	W
ATOM	29625	OH2	TIP	W	468	38.830	29.038	43.143	1.00	80.39	W
ATOM	29626	OH2	TIP	W	469	38.378	109.002	143.736	1.00	99.75	W
ATOM	29627	OH2	TIP	W	470	84.224	32.151	98.419	1.00	56.00	W
ATOM	29628	OH2	TIP	W	471	61.575	-0.672	30.907	1.00	62.40	W
ATOM	29629	OH2	TIP	W	472	28.549	0.985	46.603	1.00	45.20	W
ATOM	29630	OH2	TIP	W	473	39.211	46.043	98.314	1.00	70.01	W
ATOM	29631	OH2	TIP	W	474	83.862	144.049	140.239	1.00	57.34	W
ATOM	29632	OH2	TIP	W	475	99.450	120.483	130.604	1.00	71.92	W
ATOM	29633	OH2	TIP	W	476	115.660	105.647	160.105	1.00	67.58	W
ATOM	29634	OH2	TIP	W	477	67.847	67.901	189.858	1.00	53.58	W
ATOM	29635	OH2	TIP	W	478	59.575	78.126	185.716	1.00	56.68	W
ATOM	29636	OH2	TIP	W	479	72.064	-8.690	0.383	1.00	55.49	W
ATOM	29637	OH2	TIP	W	480	89.345	141.100	120.527	1.00	57.36	W
ATOM	29638	OH2	TIP	W	481	27.343	170.209	182.652	1.00	54.76	W
ATOM	29639	OH2	TIP	W	482	106.115	153.231	151.877	1.00	58.15	W
ATOM	29640	OH2	TIP	W	483	59.926	7.090	16.893	1.00	65.40	W
ATOM	29641	OH2	TIP	W	484	30.332	2.404	32.072	1.00	56.77	W
ATOM	29642	OH2	TIP	W	485	79.446	115.585	190.597	1.00	63.24	W
ATOM	29643	OH2	TIP	W	486	54.087	-5.545	31.877	1.00	72.69	W
ATOM	29644	OH2	TIP	W	487	75.257	57.113	95.407	1.00	67.57	W
ATOM	29645	OH2	TIP	W	488	105.916	126.047	122.093	1.00	50.76	W
ATOM	29646	OH2	TIP	W	489	66.672	-3.695	2.121	1.00	42.46	W
ATOM	29647	OH2	TIP	W	490	83.960	51.338	63.380	1.00	75.64	W

ATOM	29648	OH2	TIP	W	491	58.665	22.723	83.147	1.00	62.29	W
ATOM	29649	OH2	TIP	W	492	74.653	121.307	152.640	1.00	67.42	W
ATOM	29650	OH2	TIP	W	493	22.810	10.426	29.063	1.00	47.82	W
ATOM	29651	OH2	TIP	W	494	91.209	65.767	60.001	1.00	46.37	W
ATOM	29652	OH2	TIP	W	495	56.334	101.984	189.787	1.00	53.36	W
ATOM	29653	OH2	TIP	W	496	75.971	86.584	50.451	1.00	61.19	W
ATOM	29654	OH2	TIP	W	497	64.724	45.239	80.691	1.00	74.12	W
ATOM	29655	OH2	TIP	W	498	80.629	50.231	94.395	1.00	55.32	W
ATOM	29656	OH2	TIP	W	499	114.533	105.621	146.597	1.00	52.19	W
ATOM	29657	OH2	TIP	W	500	39.811	-2.347	49.936	1.00	63.53	W
ATOM	29658	OH2	TIP	W	501	23.534	32.655	39.162	1.00	44.64	W
ATOM	29659	OH2	TIP	W	502	66.645	141.467	133.719	1.00	53.29	W
ATOM	29660	OH2	TIP	W	503	74.719	145.540	110.535	1.00	37.79	W
ATOM	29661	OH2	TIP	W	504	28.690	8.535	51.770	1.00	77.49	W
ATOM	29662	OH2	TIP	W	505	48.290	2.101	30.264	1.00	57.23	W
ATOM	29663	OH2	TIP	W	506	38.192	11.061	12.226	1.00	76.95	W
ATOM	29664	C1	MAN	S	500	85.579	-13.629	3.020	1.00	35.98	S
ATOM	29665	O1	MAN	S	500	86.732	-13.510	2.267	1.00	39.83	S
ATOM	29666	C2	MAN	S	500	84.614	-12.521	2.613	1.00	36.14	S
ATOM	29667	O2	MAN	S	500	83.413	-12.642	3.341	1.00	39.67	S
ATOM	29668	C3	MAN	S	500	85.250	-11.163	2.890	1.00	38.81	S
ATOM	29669	O3	MAN	S	500	84.349	-10.109	2.578	1.00	36.68	S
ATOM	29670	C4	MAN	S	500	85.653	-11.075	4.355	1.00	33.98	S
ATOM	29671	O4	MAN	S	500	86.306	-9.843	4.587	1.00	35.46	S
ATOM	29672	C5	MAN	S	500	86.578	-12.237	4.722	1.00	30.51	S
ATOM	29673	O5	MAN	S	500	85.937	-13.503	4.412	1.00	35.90	S
ATOM	29674	C6	MAN	S	500	86.903	-12.250	6.199	1.00	30.14	S
ATOM	29675	O6	MAN	S	500	85.865	-12.874	6.944	1.00	36.23	S
ATOM	29676	C1	MAN	S	601	55.437	52.592	164.431	1.00	36.42	S
ATOM	29677	O1	MAN	S	601	55.609	51.422	163.714	1.00	37.40	S
ATOM	29678	C2	MAN	S	601	56.567	53.554	164.075	1.00	37.39	S
ATOM	29679	O2	MAN	S	601	56.424	54.749	164.814	1.00	41.13	S
ATOM	29680	C3	MAN	S	601	57.891	52.896	164.427	1.00	41.29	S
ATOM	29681	O3	MAN	S	601	58.976	53.751	164.106	1.00	40.93	S
ATOM	29682	C4	MAN	S	601	57.894	52.561	165.920	1.00	36.70	S
ATOM	29683	O4	MAN	S	601	59.116	51.933	166.264	1.00	41.32	S
ATOM	29684	C5	MAN	S	601	56.723	51.630	166.222	1.00	29.62	S
ATOM	29685	O5	MAN	S	601	55.482	52.262	165.833	1.00	35.08	S
ATOM	29686	C6	MAN	S	601	56.613	51.285	167.684	1.00	28.04	S
ATOM	29687	O6	MAN	S	601	56.060	52.362	168.422	1.00	32.09	S
ATOM	29688	C1	MAN	S	502	82.624	85.562	56.769	1.00	38.00	S
ATOM	29689	O1	MAN	S	502	82.473	86.673	55.954	1.00	36.63	S
ATOM	29690	C2	MAN	S	502	81.501	84.584	56.470	1.00	35.62	S
ATOM	29691	O2	MAN	S	502	81.632	83.454	57.311	1.00	41.45	S
ATOM	29692	C3	MAN	S	502	80.184	85.285	56.751	1.00	39.18	S
ATOM	29693	O3	MAN	S	502	79.085	84.450	56.421	1.00	41.30	S
ATOM	29694	C4	MAN	S	502	80.151	85.671	58.226	1.00	33.69	S
ATOM	29695	O4	MAN	S	502	78.921	86.302	58.536	1.00	37.23	S
ATOM	29696	C5	MAN	S	502	81.317	86.616	58.516	1.00	29.86	S
ATOM	29697	O5	MAN	S	502	82.573	85.989	58.153	1.00	34.55	S
ATOM	29698	C6	MAN	S	502	81.414	86.994	59.978	1.00	29.04	S
ATOM	29699	O6	MAN	S	502	81.964	85.934	60.749	1.00	35.71	S
ATOM	29700	C1	MAN	S	603	52.492	151.811	110.611	1.00	34.16	S
ATOM	29701	O1	MAN	S	603	51.328	151.703	109.867	1.00	34.25	S
ATOM	29702	C2	MAN	S	603	53.439	150.690	110.192	1.00	33.78	S
ATOM	29703	O2	MAN	S	603	54.653	150.799	110.907	1.00	39.48	S
ATOM	29704	C3	MAN	S	603	52.779	149.356	110.495	1.00	37.03	S
ATOM	29705	O3	MAN	S	603	53.622	148.286	110.108	1.00	39.72	S

ATOM	29706	C4	MAN	S	603	52.478	149.286	111.992	1.00	35.41	S
ATOM	29707	O4	MAN	S	603	51.878	148.042	112.309	1.00	38.13	S
ATOM	29708	C5	MAN	S	603	51.543	150.436	112.363	1.00	29.34	S
ATOM	29709	O5	MAN	S	603	52.154	151.705	112.015	1.00	30.50	S
ATOM	29710	C6	MAN	S	603	51.233	150.472	113.839	1.00	28.80	S
ATOM	29711	O6	MAN	S	603	52.263	151.128	114.564	1.00	34.36	S
ATOM	29712	C1	MAN	S	504	101.892	108.715	112.571	1.00	103.33	S
ATOM	29713	O1	MAN	S	504	102.887	108.507	111.628	1.00	106.23	S
ATOM	29714	C2	MAN	S	504	101.110	109.992	112.240	1.00	102.32	S
ATOM	29715	O2	MAN	S	504	100.036	110.150	113.158	1.00	103.84	S
ATOM	29716	C3	MAN	S	504	102.030	111.203	112.321	1.00	99.35	S
ATOM	29717	O3	MAN	S	504	101.275	112.385	112.115	1.00	100.69	S
ATOM	29718	C4	MAN	S	504	102.686	111.251	113.693	1.00	98.57	S
ATOM	29719	O4	MAN	S	504	103.609	112.327	113.747	1.00	98.59	S
ATOM	29720	C5	MAN	S	504	103.414	109.937	113.977	1.00	98.29	S
ATOM	29721	O5	MAN	S	504	102.505	108.820	113.866	1.00	99.72	S
ATOM	29722	C6	MAN	S	504	103.933	109.921	115.389	1.00	96.71	S
ATOM	29723	O6	MAN	S	504	102.855	109.911	116.310	1.00	100.33	S
ATOM	29724	C1	MAN	S	605	29.512	171.247	166.355	1.00	103.19	S
ATOM	29725	O1	MAN	S	605	29.689	172.347	165.530	1.00	106.43	S
ATOM	29726	C2	MAN	S	605	28.270	170.466	165.918	1.00	102.18	S
ATOM	29727	O2	MAN	S	605	28.130	169.302	166.721	1.00	105.38	S
ATOM	29728	C3	MAN	S	605	27.029	171.342	166.066	1.00	100.12	S
ATOM	29729	O3	MAN	S	605	25.871	170.579	165.775	1.00	101.64	S
ATOM	29730	C4	MAN	S	605	26.938	171.885	167.490	1.00	98.71	S
ATOM	29731	O4	MAN	S	605	25.847	172.785	167.593	1.00	100.03	S
ATOM	29732	C5	MAN	S	605	28.231	172.606	167.858	1.00	97.69	S
ATOM	29733	O5	MAN	S	605	29.356	171.716	167.704	1.00	98.99	S
ATOM	29734	C6	MAN	S	605	28.221	173.052	169.297	1.00	96.43	S
ATOM	29735	O6	MAN	S	605	28.275	171.933	170.167	1.00	100.15	S
ATOM	29736	C1	MAN	S	506	108.502	-32.821	58.809	1.00	97.47	S
ATOM	29737	O1	MAN	S	506	108.274	-33.814	57.870	1.00	101.43	S
ATOM	29738	C2	MAN	S	506	109.773	-32.046	58.456	1.00	97.03	S
ATOM	29739	O2	MAN	S	506	109.961	-30.989	59.387	1.00	100.27	S
ATOM	29740	C3	MAN	S	506	110.975	-32.984	58.490	1.00	94.15	S
ATOM	29741	O3	MAN	S	506	112.166	-32.253	58.245	1.00	94.91	S
ATOM	29742	C4	MAN	S	506	111.060	-33.654	59.852	1.00	92.51	S
ATOM	29743	O4	MAN	S	506	112.116	-34.601	59.852	1.00	92.35	S
ATOM	29744	C5	MAN	S	506	109.744	-34.356	60.184	1.00	91.51	S
ATOM	29745	O5	MAN	S	506	108.635	-33.434	60.099	1.00	94.07	S
ATOM	29746	C6	MAN	S	506	109.765	-34.860	61.604	1.00	90.63	S
ATOM	29747	O6	MAN	S	506	109.718	-33.776	62.518	1.00	91.11	S
ATOM	29748	C1	MAN	S	607	36.135	29.627	4.984	1.00	114.60	S
ATOM	29749	O1	MAN	S	607	35.096	29.921	4.118	1.00	117.62	S
ATOM	29750	C2	MAN	S	607	36.823	28.325	4.560	1.00	114.16	S
ATOM	29751	O2	MAN	S	607	37.958	28.092	5.382	1.00	116.18	S
ATOM	29752	C3	MAN	S	607	35.853	27.153	4.682	1.00	112.05	S
ATOM	29753	O3	MAN	S	607	36.533	25.942	4.404	1.00	113.43	S
ATOM	29754	C4	MAN	S	607	35.285	27.100	6.091	1.00	111.37	S
ATOM	29755	O4	MAN	S	607	34.321	26.062	6.183	1.00	111.77	S
ATOM	29756	C5	MAN	S	607	34.639	28.436	6.442	1.00	110.78	S
ATOM	29757	O5	MAN	S	607	35.600	29.505	6.311	1.00	112.26	S
ATOM	29758	C6	MAN	S	607	34.176	28.445	7.876	1.00	110.30	S
ATOM	29759	O6	MAN	S	607	35.274	28.255	8.755	1.00	112.39	S
ATOM	29760	OH2	TIP	W	507	101.138	114.498	214.109	1.00	59.06	W
ATOM	29761	OH2	TIP	W	508	101.573	133.279	158.876	1.00	39.53	W
ATOM	29762	OH2	TIP	W	509	38.919	-17.671	46.993	1.00	64.66	W
ATOM	29763	OH2	TIP	W	510	122.105	116.328	144.752	1.00	37.03	W

ATOM	29764	OH2	TIP	W	511	15.346	12.825	41.262	1.00	37.75	W
ATOM	29765	OH2	TIP	W	512	51.215	99.481	208.462	1.00	65.58	W
ATOM	29766	OH2	TIP	W	513	86.818	38.798	100.791	1.00	68.46	W
ATOM	29767	OH2	TIP	W	514	69.933	69.400	188.057	1.00	51.29	W
ATOM	29768	OH2	TIP	W	515	101.261	146.596	137.995	1.00	40.30	W
ATOM	29769	OH2	TIP	W	516	49.743	30.987	5.504	1.00	100.55	W
ATOM	29770	OH2	TIP	W	517	44.172	-17.201	37.603	1.00	55.17	W
ATOM	29771	OH2	TIP	W	518	63.254	129.432	111.561	1.00	67.16	W
ATOM	29772	OH2	TIP	W	519	64.179	99.657	174.819	1.00	57.30	W
ATOM	29773	OH2	TIP	W	520	81.460	32.055	100.775	1.00	34.26	W
ATOM	29774	OH2	TIP	W	521	77.377	62.901	164.995	1.00	97.35	W
ATOM	29775	OH2	TIP	W	522	14.484	20.895	48.043	1.00	51.32	W
ATOM	29776	OH2	TIP	W	523	94.074	-15.777	5.427	1.00	68.08	W
ATOM	29777	OH2	TIP	W	524	53.207	44.196	166.947	1.00	79.75	W
ATOM	29778	OH2	TIP	W	525	122.607	125.430	148.984	1.00	42.38	W
ATOM	29779	OH2	TIP	W	526	68.356	26.847	93.631	1.00	51.97	W
ATOM	29780	OH2	TIP	W	527	99.646	143.709	121.159	1.00	55.12	W
ATOM	29781	OH2	TIP	W	528	84.868	94.163	59.021	1.00	82.96	W
ATOM	29782	OH2	TIP	W	529	68.725	76.510	192.785	1.00	55.81	W
ATOM	29783	OH2	TIP	W	530	129.962	-4.381	92.302	1.00	38.36	W
ATOM	29784	OH2	TIP	W	531	35.847	-12.337	28.046	1.00	52.07	W
ATOM	29785	OH2	TIP	W	532	88.325	106.854	113.177	1.00	94.66	W
ATOM	29786	OH2	TIP	W	533	44.717	-8.982	32.236	1.00	38.83	W
ATOM	29787	OH2	TIP	W	534	60.216	93.587	193.840	1.00	35.73	W
ATOM	29788	OH2	TIP	W	535	126.768	-27.036	56.182	1.00	68.76	W
ATOM	29789	OH2	TIP	W	536	46.546	34.619	113.640	1.00	50.67	W
ATOM	29790	OH2	TIP	W	537	76.775	114.097	187.692	1.00	53.64	W
ATOM	29791	OH2	TIP	W	538	71.676	34.271	71.077	1.00	65.88	W
ATOM	29792	OH2	TIP	W	539	154.228	30.625	101.268	1.00	66.72	W
ATOM	29793	OH2	TIP	W	540	46.851	72.338	167.629	1.00	43.82	W
ATOM	29794	OH2	TIP	W	541	61.248	24.500	80.092	1.00	49.22	W
ATOM	29795	OH2	TIP	W	542	70.667	103.464	191.262	1.00	51.87	W
ATOM	29796	OH2	TIP	W	543	72.834	30.151	86.311	1.00	42.21	W
ATOM	29797	OH2	TIP	W	544	64.543	8.361	38.053	1.00	52.40	W
ATOM	29798	OH2	TIP	W	545	55.465	32.091	17.501	1.00	57.77	W
ATOM	29799	OH2	TIP	W	546	81.203	49.632	77.545	1.00	54.34	W
ATOM	29800	OH2	TIP	W	547	68.083	156.023	129.104	1.00	44.45	W
ATOM	29801	OH2	TIP	W	548	27.609	7.103	22.573	1.00	53.33	W
ATOM	29802	OH2	TIP	W	549	113.645	130.491	134.134	1.00	44.76	W
ATOM	29803	OH2	TIP	W	550	34.943	22.655	59.877	1.00	60.39	W
ATOM	29804	OH2	TIP	W	551	60.861	20.630	88.372	1.00	63.64	W
ATOM	29805	OH2	TIP	W	552	77.917	44.695	85.977	1.00	38.31	W
ATOM	29806	OH2	TIP	W	553	58.815	73.415	163.369	1.00	56.65	W
ATOM	29807	OH2	TIP	W	554	51.665	59.510	160.320	1.00	53.88	W
ATOM	29808	OH2	TIP	W	555	71.678	39.615	104.013	1.00	59.87	W
ATOM	29809	OH2	TIP	W	556	38.719	17.854	23.121	1.00	72.84	W
ATOM	29810	OH2	TIP	W	557	33.574	144.465	136.929	1.00	55.94	W
ATOM	29811	OH2	TIP	W	558	53.773	149.556	123.663	1.00	48.36	W
ATOM	29812	OH2	TIP	W	559	8.984	127.340	215.016	1.00	52.28	W
ATOM	29813	OH2	TIP	W	560	130.824	-9.610	70.683	1.00	71.10	W
ATOM	29814	OH2	TIP	W	561	77.205	75.733	53.450	1.00	47.88	W
ATOM	29815	OH2	TIP	W	562	70.001	109.570	208.400	1.00	53.02	W
ATOM	29816	OH2	TIP	W	563	16.148	20.943	44.452	1.00	49.99	W
ATOM	29817	OH2	TIP	W	564	130.816	143.370	132.267	1.00	56.83	W
ATOM	29818	OH2	TIP	W	565	65.950	-22.137	6.252	1.00	43.33	W
ATOM	29819	OH2	TIP	W	566	27.360	-19.340	20.423	1.00	52.53	W
ATOM	29820	OH2	TIP	W	567	24.046	8.012	26.547	1.00	59.33	W
ATOM	29821	OH2	TIP	W	568	76.256	138.772	138.986	1.00	57.89	W

ATOM	29822	OH2	TIP	W	569	41.318	17.233	100.271	1.00	53.99	W
ATOM	29823	OH2	TIP	W	570	60.723	158.067	112.466	1.00	47.86	W
ATOM	29824	OH2	TIP	W	571	115.692	106.546	144.033	1.00	49.83	W
ATOM	29825	OH2	TIP	W	572	110.535	131.033	130.098	1.00	51.09	W
ATOM	29826	OH2	TIP	W	573	100.411	141.734	158.694	1.00	44.37	W
ATOM	29827	OH2	TIP	W	574	111.139	157.778	128.101	1.00	56.92	W
ATOM	29828	OH2	TIP	W	575	59.731	82.289	166.136	1.00	60.37	W
ATOM	29829	OH2	TIP	W	576	22.318	31.815	36.601	1.00	53.79	W
ATOM	29830	OH2	TIP	W	577	69.986	-17.904	21.234	1.00	35.47	W
ATOM	29831	OH2	TIP	W	578	20.388	7.954	53.073	1.00	62.00	W
ATOM	29832	OH2	TIP	W	579	73.421	158.426	117.398	1.00	41.46	W
ATOM	29833	OH2	TIP	W	580	113.605	132.022	158.143	1.00	57.10	W
ATOM	29834	OH2	TIP	W	581	67.325	49.324	85.041	1.00	52.57	W
ATOM	29835	OH2	TIP	W	582	117.560	130.114	142.140	1.00	61.09	W
ATOM	29836	OH2	TIP	W	583	75.809	152.919	128.117	1.00	53.16	W
ATOM	29837	OH2	TIP	W	584	71.027	114.939	184.649	1.00	72.49	W
ATOM	29838	OH2	TIP	W	585	42.204	5.185	27.044	1.00	62.97	W
ATOM	29839	OH2	TIP	W	586	31.193	-14.714	14.119	1.00	69.18	W
ATOM	29840	OH2	TIP	W	587	117.805	130.209	160.678	1.00	60.08	W
ATOM	29841	OH2	TIP	W	588	20.443	8.035	34.524	1.00	54.79	W
ATOM	29842	OH2	TIP	W	589	83.487	51.596	77.400	1.00	50.36	W
ATOM	29843	OH2	TIP	W	590	46.963	113.293	199.064	1.00	47.21	W
ATOM	29844	OH2	TIP	W	591	84.936	29.722	96.984	1.00	48.30	W
ATOM	29845	OH2	TIP	W	592	66.703	-16.587	20.854	1.00	88.30	W
ATOM	29846	OH2	TIP	W	593	71.762	154.966	128.724	1.00	92.46	W
ATOM	29847	OH2	TIP	W	594	64.178	149.372	131.782	1.00	47.67	W
ATOM	29848	OH2	TIP	W	595	107.856	135.890	139.205	1.00	57.14	W
ATOM	29849	OH2	TIP	W	596	96.657	121.097	207.898	1.00	51.14	W
ATOM	29850	OH2	TIP	W	597	29.811	-15.948	16.695	1.00	68.79	W
ATOM	29851	OH2	TIP	W	598	22.396	146.158	188.133	1.00	56.79	W
ATOM	29852	OH2	TIP	W	599	83.883	143.689	120.329	1.00	64.66	W
ATOM	29853	OH2	TIP	W	600	76.787	35.541	85.226	1.00	80.53	W
ATOM	29854	OH2	TIP	W	601	35.957	5.659	50.905	1.00	42.91	W
ATOM	29855	OH2	TIP	W	602	61.144	102.614	192.364	1.00	56.45	W
ATOM	29856	OH2	TIP	W	603	72.918	151.363	128.332	1.00	63.79	W
ATOM	29857	OH2	TIP	W	604	55.357	142.010	103.461	1.00	65.67	W
ATOM	29858	OH2	TIP	W	605	96.791	132.136	142.852	1.00	71.80	W
ATOM	29859	OH2	TIP	W	606	94.052	155.419	144.792	1.00	75.86	W
ATOM	29860	OH2	TIP	W	607	62.811	-17.565	18.337	1.00	53.85	W
ATOM	29861	OH2	TIP	W	608	62.455	41.497	88.747	1.00	67.72	W
ATOM	29862	OH2	TIP	W	609	51.240	75.610	179.704	1.00	45.45	W
ATOM	29863	OH2	TIP	W	610	71.036	100.329	214.288	1.00	48.03	W
ATOM	29864	OH2	TIP	W	611	81.318	106.319	125.126	1.00	70.14	W
ATOM	29865	OH2	TIP	W	612	101.474	114.928	200.134	1.00	60.00	W
ATOM	29866	OH2	TIP	W	613	27.218	173.464	186.021	1.00	75.20	W
ATOM	29867	OH2	TIP	W	614	60.887	57.469	92.199	1.00	69.57	W
ATOM	29868	OH2	TIP	W	615	44.298	-23.535	33.575	1.00	57.12	W
ATOM	29869	OH2	TIP	W	616	99.753	135.688	160.312	1.00	47.73	W
ATOM	29870	OH2	TIP	W	617	52.633	149.549	104.593	1.00	76.14	W
ATOM	29871	OH2	TIP	W	618	79.743	31.302	106.052	1.00	65.93	W
ATOM	29872	OH2	TIP	W	619	114.827	113.877	137.759	1.00	68.38	W
ATOM	29873	OH2	TIP	W	620	62.229	27.474	76.195	1.00	60.79	W
ATOM	29874	OH2	TIP	W	621	72.024	11.559	80.851	1.00	60.24	W
ATOM	29875	OH2	TIP	W	622	66.390	38.216	106.464	1.00	51.35	W
ATOM	29876	OH2	TIP	W	623	130.643	-25.256	72.179	1.00	57.65	W
ATOM	29877	OH2	TIP	W	624	77.248	-19.739	5.077	1.00	59.58	W
ATOM	29878	OH2	TIP	W	625	94.361	-7.639	9.972	1.00	53.66	W
ATOM	29879	OH2	TIP	W	626	76.791	95.034	63.834	1.00	60.67	W

ATOM	29880	OH2	TIP	W	627	50.878	68.015	182.546	1.00	56.90	W
ATOM	29881	OH2	TIP	W	628	7.364	163.647	179.945	1.00	64.55	W
ATOM	29882	OH2	TIP	W	629	73.605	-11.050	24.191	1.00	53.48	W
ATOM	29883	OH2	TIP	W	630	52.044	28.524	105.333	1.00	61.00	W
ATOM	29884	OH2	TIP	W	631	72.239	160.682	114.358	1.00	62.07	W
ATOM	29885	OH2	TIP	W	632	58.169	64.417	185.804	1.00	58.95	W
ATOM	29886	OH2	TIP	W	633	52.729	-8.454	32.347	1.00	80.49	W
ATOM	29887	OH2	TIP	W	634	87.076	69.591	75.116	1.00	57.60	W
ATOM	29888	OH2	TIP	W	635	64.174	-2.320	3.800	1.00	60.87	W
ATOM	29889	OH2	TIP	W	636	81.252	49.575	63.173	1.00	65.54	W
ATOM	29890	OH2	TIP	W	637	99.076	156.824	126.636	1.00	64.30	W
ATOM	29891	OH2	TIP	W	638	45.170	93.675	195.045	1.00	56.24	W
ATOM	29892	OH2	TIP	W	639	31.251	149.347	179.321	1.00	70.34	W
ATOM	29893	OH2	TIP	W	640	62.195	130.356	120.851	1.00	55.82	W
ATOM	29894	OH2	TIP	W	641	32.474	152.421	179.620	1.00	79.33	W
ATOM	29895	OH2	TIP	W	642	43.901	43.298	91.793	1.00	75.24	W
ATOM	29896	OH2	TIP	W	643	73.448	148.873	109.639	1.00	67.08	W
ATOM	29897	OH2	TIP	W	644	60.156	71.433	161.062	1.00	54.55	W
ATOM	29898	OH2	TIP	W	645	40.987	12.899	37.393	1.00	62.01	W
ATOM	29899	OH2	TIP	W	646	46.983	8.426	6.585	1.00	50.64	W
ATOM	29900	OH2	TIP	W	647	106.825	148.692	159.734	1.00	66.72	W

END

Table 16

ATOM	1	N	GLY	A	1	43.535	15.251	34.960	1.00	34.97
ATOM	2	CA	GLY	A	1	43.265	14.682	36.311	1.00	32.18
ATOM	3	C	GLY	A	1	44.130	13.481	36.618	1.00	30.16
ATOM	4	O	GLY	A	1	45.331	13.504	36.369	1.00	30.25
ATOM	5	N	VAL	A	2	43.513	12.432	37.154	1.00	28.42
ATOM	6	CA	VAL	A	2	44.223	11.208	37.507	1.00	24.56
ATOM	7	C	VAL	A	2	43.557	10.033	36.803	1.00	23.53
ATOM	8	O	VAL	A	2	42.339	9.907	36.846	1.00	23.41
ATOM	9	CB	VAL	A	2	44.209	11.014	39.041	1.00	20.78
ATOM	10	CG1	VAL	A	2	44.877	9.725	39.421	1.00	21.82
ATOM	11	CG2	VAL	A	2	44.931	12.179	39.707	1.00	17.73
ATOM	12	N	ALA	A	3	44.348	9.191	36.130	1.00	24.23
ATOM	13	CA	ALA	A	3	43.791	8.027	35.412	1.00	24.19
ATOM	14	C	ALA	A	3	44.530	6.709	35.646	1.00	24.02
ATOM	15	O	ALA	A	3	45.750	6.673	35.839	1.00	22.03
ATOM	16	CB	ALA	A	3	43.714	8.308	33.916	1.00	21.60
ATOM	17	N	LEU	A	4	43.764	5.626	35.625	1.00	23.03
ATOM	18	CA	LEU	A	4	44.312	4.310	35.843	1.00	20.77
ATOM	19	C	LEU	A	4	44.826	3.766	34.524	1.00	24.96
ATOM	20	O	LEU	A	4	44.297	4.093	33.445	1.00	24.30
ATOM	21	CB	LEU	A	4	43.240	3.400	36.420	1.00	18.27
ATOM	22	CG	LEU	A	4	42.516	3.920	37.678	1.00	21.47
ATOM	23	CD1	LEU	A	4	41.496	2.886	38.125	1.00	18.77
ATOM	24	CD2	LEU	A	4	43.490	4.215	38.808	1.00	16.44
ATOM	25	N	GLY	A	5	45.871	2.941	34.616	1.00	26.08
ATOM	26	CA	GLY	A	5	46.483	2.362	33.433	1.00	24.13
ATOM	27	C	GLY	A	5	45.611	1.379	32.686	1.00	23.20
ATOM	28	O	GLY	A	5	45.786	1.193	31.489	1.00	27.26
ATOM	29	N	ALA	A	6	44.678	0.744	33.382	1.00	22.06
ATOM	30	CA	ALA	A	6	43.776	-0.224	32.762	1.00	20.60
ATOM	31	C	ALA	A	6	42.341	0.231	32.836	1.00	21.10
ATOM	32	O	ALA	A	6	42.016	1.242	33.445	1.00	26.35
ATOM	33	CB	ALA	A	6	43.895	-1.542	33.452	1.00	22.71
ATOM	34	N	THR	A	7	41.473	-0.534	32.210	1.00	19.26
ATOM	35	CA	THR	A	7	40.064	-0.223	32.227	1.00	16.89
ATOM	36	C	THR	A	7	39.388	-1.363	32.936	1.00	16.72
ATOM	37	O	THR	A	7	38.172	-1.369	33.105	1.00	17.35
ATOM	38	CB	THR	A	7	39.505	-0.078	30.813	1.00	20.53
ATOM	39	OG1	THR	A	7	39.912	-1.197	29.998	1.00	20.71
ATOM	40	CG2	THR	A	7	39.994	1.234	30.212	1.00	15.08
ATOM	41	N	ARG	A	8	40.203	-2.333	33.342	1.00	16.36
ATOM	42	CA	ARG	A	8	39.749	-3.503	34.085	1.00	16.52
ATOM	43	C	ARG	A	8	40.980	-4.251	34.593	1.00	16.54
ATOM	44	O	ARG	A	8	42.114	-3.928	34.241	1.00	12.59
ATOM	45	CB	ARG	A	8	38.885	-4.417	33.211	1.00	16.19
ATOM	46	CG	ARG	A	8	39.644	-5.438	32.404	1.00	23.79
ATOM	47	CD	ARG	A	8	39.412	-5.295	30.923	1.00	22.19
ATOM	48	NE	ARG	A	8	37.999	-5.363	30.540	1.00	22.97
ATOM	49	CZ	ARG	A	8	37.209	-4.299	30.417	1.00	21.84
ATOM	50	NH1	ARG	A	8	37.689	-3.085	30.656	1.00	27.18
ATOM	51	NH2	ARG	A	8	35.946	-4.439	30.056	1.00	15.23
ATOM	52	N	VAL	A	9	40.764	-5.260	35.421	1.00	16.99
ATOM	53	CA	VAL	A	9	41.886	-5.990	35.976	1.00	17.11
ATOM	54	C	VAL	A	9	41.519	-7.427	36.199	1.00	19.13
ATOM	55	O	VAL	A	9	40.424	-7.728	36.669	1.00	16.77
ATOM	56	CB	VAL	A	9	42.325	-5.405	37.340	1.00	16.67
ATOM	57	CG1	VAL	A	9	43.159	-6.414	38.092	1.00	14.21
ATOM	58	CG2	VAL	A	9	43.128	-4.140	37.129	1.00	14.18
ATOM	59	N	ILE	A	10	42.461	-8.309	35.871	1.00	20.12
ATOM	60	CA	ILE	A	10	42.270	-9.733	36.038	1.00	18.42

ATOM	61	C	ILE	A	10	43.156	-10.276	37.119	1.00	18.78
ATOM	62	O	ILE	A	10	44.366	-10.240	37.005	1.00	17.39
ATOM	63	CB	ILE	A	10	42.570	-10.496	34.767	1.00	12.33
ATOM	64	CG1	ILE	A	10	41.649	-10.007	33.666	1.00	13.90
ATOM	65	CG2	ILE	A	10	42.334	-11.961	34.996	1.00	14.35
ATOM	66	CD1	ILE	A	10	40.195	-10.001	34.068	1.00	4.79
ATOM	67	N	TYR	A	11	42.533	-10.777	38.179	1.00	21.19
ATOM	68	CA	TYR	A	11	43.281	-11.346	39.280	1.00	21.58
ATOM	69	C	TYR	A	11	43.366	-12.856	39.167	1.00	22.61
ATOM	70	O	TYR	A	11	42.372	-13.571	39.354	1.00	23.15
ATOM	71	CB	TYR	A	11	42.651	-11.005	40.615	1.00	18.81
ATOM	72	CG	TYR	A	11	43.683	-10.898	41.688	1.00	20.41
ATOM	73	CD1	TYR	A	11	44.211	-12.035	42.304	1.00	22.37
ATOM	74	CD2	TYR	A	11	44.152	-9.654	42.082	1.00	22.06
ATOM	75	CE1	TYR	A	11	45.189	-11.919	43.301	1.00	25.96
ATOM	76	CE2	TYR	A	11	45.123	-9.527	43.069	1.00	25.70
ATOM	77	CZ	TYR	A	11	45.637	-10.650	43.676	1.00	26.17
ATOM	78	OH	TYR	A	11	46.589	-10.473	44.649	1.00	25.53
ATOM	79	N	PRO	A	12	44.567	-13.356	38.851	1.00	22.59
ATOM	80	CA	PRO	A	12	44.895	-14.779	38.695	1.00	19.85
ATOM	81	C	PRO	A	12	44.937	-15.471	40.065	1.00	19.19
ATOM	82	O	PRO	A	12	45.772	-15.139	40.920	1.00	11.72
ATOM	83	CB	PRO	A	12	46.280	-14.752	38.040	1.00	22.03
ATOM	84	CG	PRO	A	12	46.421	-13.335	37.486	1.00	23.18
ATOM	85	CD	PRO	A	12	45.718	-12.501	38.501	1.00	22.69
ATOM	86	N	ALA	A	13	44.041	-16.429	40.271	1.00	21.05
ATOM	87	CA	ALA	A	13	43.999	-17.136	41.540	1.00	27.48
ATOM	88	C	ALA	A	13	45.380	-17.685	41.832	1.00	33.19
ATOM	89	O	ALA	A	13	45.994	-18.347	40.989	1.00	36.02
ATOM	90	CB	ALA	A	13	42.993	-18.249	41.489	1.00	28.48
ATOM	91	N	GLY	A	14	45.871	-17.394	43.032	1.00	38.67
ATOM	92	CA	GLY	A	14	47.195	-17.840	43.421	1.00	44.20
ATOM	93	C	GLY	A	14	48.156	-16.666	43.503	1.00	47.53
ATOM	94	O	GLY	A	14	48.921	-16.540	44.466	1.00	48.75
ATOM	95	N	GLN	A	15	48.111	-15.809	42.485	1.00	49.11
ATOM	96	CA	GLN	A	15	48.959	-14.624	42.412	1.00	50.51
ATOM	97	C	GLN	A	15	49.140	-13.938	43.759	1.00	51.17
ATOM	98	O	GLN	A	15	48.170	-13.547	44.412	1.00	51.17
ATOM	99	CB	GLN	A	15	48.364	-13.623	41.426	1.00	53.26
ATOM	100	CG	GLN	A	15	48.819	-13.811	40.012	1.00	57.92
ATOM	101	CD	GLN	A	15	50.300	-13.610	39.878	1.00	61.17
ATOM	102	OE1	GLN	A	15	50.822	-12.539	40.201	1.00	61.00
ATOM	103	NE2	GLN	A	15	50.997	-14.643	39.401	1.00	62.19
ATOM	104	N	LYS	A	16	50.386	-13.777	44.177	1.00	51.79
ATOM	105	CA	LYS	A	16	50.638	-13.120	45.447	1.00	51.12
ATOM	106	C	LYS	A	16	50.122	-11.692	45.373	1.00	48.40
ATOM	107	O	LYS	A	16	49.677	-11.166	46.373	1.00	51.02
ATOM	108	CB	LYS	A	16	52.132	-13.118	45.773	1.00	56.60
ATOM	109	CG	LYS	A	16	52.447	-12.976	47.268	1.00	60.58
ATOM	110	CD	LYS	A	16	53.963	-12.847	47.532	1.00	64.23
ATOM	111	CE	LYS	A	16	54.781	-14.017	46.955	1.00	61.72
ATOM	112	NZ	LYS	A	16	54.383	-15.325	47.536	1.00	61.27
ATOM	113	N	GLN	A	17	50.187	-11.067	44.197	1.00	45.21
ATOM	114	CA	GLN	A	17	49.692	-9.695	44.025	1.00	42.50
ATOM	115	C	GLN	A	17	49.539	-9.267	42.564	1.00	38.98
ATOM	116	O	GLN	A	17	50.103	-9.885	41.676	1.00	42.09
ATOM	117	CB	GLN	A	17	50.619	-8.710	44.714	1.00	42.77
ATOM	118	CG	GLN	A	17	51.999	-8.686	44.108	1.00	47.36
ATOM	119	CD	GLN	A	17	52.715	-7.388	44.387	1.00	48.69
ATOM	120	OE1	GLN	A	17	52.802	-6.952	45.547	1.00	47.32
ATOM	121	NE2	GLN	A	17	53.232	-6.749	43.327	1.00	45.31
ATOM	122	N	VAL	A	18	48.776	-8.205	42.327	1.00	34.91

ATOM	123	CA	VAL	A	18	48.548	-7.675	40.977	1.00	33.19
ATOM	124	C	VAL	A	18	48.698	-6.155	40.955	1.00	31.76
ATOM	125	O	VAL	A	18	48.117	-5.444	41.770	1.00	30.72
ATOM	126	CB	VAL	A	18	47.146	-8.026	40.455	1.00	35.00
ATOM	127	CG1	VAL	A	18	46.873	-7.279	39.163	1.00	30.18
ATOM	128	CG2	VAL	A	18	47.039	-9.525	40.230	1.00	37.03
ATOM	129	N	GLN	A	19	49.452	-5.660	39.989	1.00	30.96
ATOM	130	CA	GLN	A	19	49.736	-4.238	39.900	1.00	30.63
ATOM	131	C	GLN	A	19	48.901	-3.471	38.910	1.00	28.26
ATOM	132	O	GLN	A	19	48.550	-3.984	37.862	1.00	28.76
ATOM	133	CB	GLN	A	19	51.217	-4.065	39.590	1.00	30.50
ATOM	134	CG	GLN	A	19	52.043	-5.006	40.461	1.00	42.61
ATOM	135	CD	GLN	A	19	53.533	-4.735	40.438	1.00	51.67
ATOM	136	OE1	GLN	A	19	54.282	-5.276	41.261	1.00	54.61
ATOM	137	NE2	GLN	A	19	53.977	-3.904	39.496	1.00	55.58
ATOM	138	N	LEU	A	20	48.568	-2.239	39.275	1.00	27.28
ATOM	139	CA	LEU	A	20	47.791	-1.344	38.431	1.00	26.26
ATOM	140	C	LEU	A	20	48.479	0.018	38.460	1.00	26.29
ATOM	141	O	LEU	A	20	48.923	0.475	39.515	1.00	25.44
ATOM	142	CB	LEU	A	20	46.358	-1.211	38.952	1.00	27.89
ATOM	143	CG	LEU	A	20	45.397	-0.247	38.233	1.00	25.55
ATOM	144	CD1	LEU	A	20	45.067	-0.768	36.864	1.00	24.04
ATOM	145	CD2	LEU	A	20	44.117	-0.110	39.027	1.00	26.32
ATOM	146	N	ALA	A	21	48.563	0.662	37.301	1.00	25.66
ATOM	147	CA	ALA	A	21	49.218	1.960	37.187	1.00	25.35
ATOM	148	C	ALA	A	21	48.275	3.141	37.399	1.00	25.01
ATOM	149	O	ALA	A	21	47.121	3.118	36.959	1.00	26.73
ATOM	150	CB	ALA	A	21	49.882	2.073	35.820	1.00	21.60
ATOM	151	N	VAL	A	22	48.779	4.168	38.077	1.00	21.25
ATOM	152	CA	VAL	A	22	48.018	5.382	38.332	1.00	23.04
ATOM	153	C	VAL	A	22	48.898	6.552	37.947	1.00	23.83
ATOM	154	O	VAL	A	22	50.086	6.556	38.222	1.00	22.36
ATOM	155	CB	VAL	A	22	47.644	5.542	39.817	1.00	21.39
ATOM	156	CG1	VAL	A	22	46.954	6.880	40.053	1.00	24.29
ATOM	157	CG2	VAL	A	22	46.720	4.440	40.222	1.00	28.57
ATOM	158	N	THR	A	23	48.316	7.545	37.298	1.00	26.29
ATOM	159	CA	THR	A	23	49.092	8.696	36.909	1.00	29.96
ATOM	160	C	THR	A	23	48.280	9.976	36.934	1.00	32.98
ATOM	161	O	THR	A	23	47.105	10.000	36.577	1.00	31.13
ATOM	162	CB	THR	A	23	49.729	8.509	35.517	1.00	30.31
ATOM	163	OG1	THR	A	23	49.665	9.749	34.794	1.00	28.29
ATOM	164	CG2	THR	A	23	49.033	7.402	34.753	1.00	26.77
ATOM	165	N	ASN	A	24	48.952	11.032	37.377	1.00	36.62
ATOM	166	CA	ASN	A	24	48.391	12.360	37.516	1.00	37.66
ATOM	167	C	ASN	A	24	48.941	13.239	36.398	1.00	40.20
ATOM	168	O	ASN	A	24	50.148	13.422	36.279	1.00	39.49
ATOM	169	CB	ASN	A	24	48.780	12.906	38.894	1.00	34.62
ATOM	170	CG	ASN	A	24	48.338	14.317	39.104	1.00	33.65
ATOM	171	OD1	ASN	A	24	47.291	14.719	38.616	1.00	40.10
ATOM	172	ND2	ASN	A	24	49.119	15.080	39.847	1.00	29.96
ATOM	173	N	ASN	A	25	48.031	13.781	35.591	1.00	45.45
ATOM	174	CA	ASN	A	25	48.349	14.634	34.440	1.00	49.83
ATOM	175	C	ASN	A	25	48.516	16.098	34.757	1.00	51.71
ATOM	176	O	ASN	A	25	49.193	16.820	34.036	1.00	52.42
ATOM	177	CB	ASN	A	25	47.241	14.532	33.404	1.00	50.41
ATOM	178	CG	ASN	A	25	46.993	13.126	32.980	1.00	54.70
ATOM	179	OD1	ASN	A	25	47.271	12.189	33.728	1.00	58.42
ATOM	180	ND2	ASN	A	25	46.452	12.954	31.778	1.00	60.47
ATOM	181	N	ASP	A	26	47.868	16.539	35.821	1.00	54.46
ATOM	182	CA	ASP	A	26	47.909	17.931	36.213	1.00	57.83
ATOM	183	C	ASP	A	26	49.299	18.402	36.632	1.00	60.38
ATOM	184	O	ASP	A	26	49.774	18.102	37.734	1.00	60.03

ATOM	185	CB	ASP	A	26	46.875	18.146	37.313	1.00	61.55
ATOM	186	CG	ASP	A	26	45.482	17.674	36.895	1.00	65.35
ATOM	187	OD1	ASP	A	26	45.320	17.297	35.714	1.00	69.10
ATOM	188	OD2	ASP	A	26	44.552	17.677	37.734	1.00	68.18
ATOM	189	N	GLU	A	27	49.934	19.148	35.724	1.00	62.47
ATOM	190	CA	GLU	A	27	51.278	19.695	35.904	1.00	65.65
ATOM	191	C	GLU	A	27	51.531	20.308	37.270	1.00	65.02
ATOM	192	O	GLU	A	27	52.676	20.528	37.660	1.00	65.68
ATOM	193	CB	GLU	A	27	51.563	20.747	34.829	1.00	70.39
ATOM	194	CG	GLU	A	27	52.472	20.269	33.699	1.00	80.45
ATOM	195	CD	GLU	A	27	52.548	21.254	32.532	1.00	85.82
ATOM	196	OE1	GLU	A	27	52.847	22.448	32.772	1.00	87.60
ATOM	197	OE2	GLU	A	27	52.310	20.828	31.376	1.00	87.77
ATOM	198	N	ASN	A	28	50.462	20.588	37.995	1.00	63.79
ATOM	199	CA	ASN	A	28	50.597	21.186	39.305	1.00	64.09
ATOM	200	C	ASN	A	28	49.268	21.191	40.059	1.00	62.63
ATOM	201	O	ASN	A	28	48.350	21.964	39.766	1.00	61.43
ATOM	202	CB	ASN	A	28	51.170	22.608	39.172	1.00	66.63
ATOM	203	CG	ASN	A	28	50.456	23.443	38.113	1.00	67.63
ATOM	204	OD1	ASN	A	28	50.923	24.519	37.752	1.00	68.35
ATOM	205	ND2	ASN	A	28	49.320	22.952	37.618	1.00	69.52
ATOM	206	N	SER	A	29	49.191	20.297	41.033	1.00	60.62
ATOM	207	CA	SER	A	29	48.021	20.125	41.874	1.00	58.27
ATOM	208	C	SER	A	29	48.173	18.753	42.518	1.00	56.11
ATOM	209	O	SER	A	29	48.182	17.730	41.838	1.00	57.30
ATOM	210	CB	SER	A	29	46.729	20.189	41.047	1.00	57.71
ATOM	211	OG	SER	A	29	46.627	19.106	40.146	1.00	52.13
ATOM	212	N	THR	A	30	48.312	18.741	43.833	1.00	52.46
ATOM	213	CA	THR	A	30	48.480	17.499	44.555	1.00	50.76
ATOM	214	C	THR	A	30	47.156	16.766	44.749	1.00	47.82
ATOM	215	O	THR	A	30	46.086	17.367	44.679	1.00	47.85
ATOM	216	CB	THR	A	30	49.127	17.775	45.917	1.00	52.18
ATOM	217	OG1	THR	A	30	50.448	18.291	45.710	1.00	51.11
ATOM	218	CG2	THR	A	30	49.207	16.508	46.747	1.00	54.01
ATOM	219	N	TYR	A	31	47.241	15.458	44.963	1.00	45.31
ATOM	220	CA	TYR	A	31	46.062	14.632	45.192	1.00	41.94
ATOM	221	C	TYR	A	31	46.331	13.541	46.225	1.00	41.78
ATOM	222	O	TYR	A	31	47.465	13.113	46.456	1.00	41.60
ATOM	223	CB	TYR	A	31	45.584	13.949	43.904	1.00	39.22
ATOM	224	CG	TYR	A	31	44.959	14.852	42.875	1.00	36.12
ATOM	225	CD1	TYR	A	31	43.615	15.206	42.953	1.00	36.13
ATOM	226	CD2	TYR	A	31	45.708	15.352	41.819	1.00	33.12
ATOM	227	CE1	TYR	A	31	43.034	16.038	41.999	1.00	33.09
ATOM	228	CE2	TYR	A	31	45.139	16.181	40.868	1.00	34.66
ATOM	229	CZ	TYR	A	31	43.805	16.519	40.962	1.00	33.81
ATOM	230	OH	TYR	A	31	43.250	17.337	40.009	1.00	35.89
ATOM	231	N	LEU	A	32	45.254	13.095	46.845	1.00	40.19
ATOM	232	CA	LEU	A	32	45.307	12.038	47.825	1.00	35.41
ATOM	233	C	LEU	A	32	44.631	10.868	47.150	1.00	33.26
ATOM	234	O	LEU	A	32	43.447	10.940	46.817	1.00	33.82
ATOM	235	CB	LEU	A	32	44.537	12.458	49.063	1.00	35.89
ATOM	236	CG	LEU	A	32	45.410	13.017	50.173	1.00	30.85
ATOM	237	CD1	LEU	A	32	44.591	13.877	51.112	1.00	26.84
ATOM	238	CD2	LEU	A	32	46.034	11.842	50.885	1.00	26.09
ATOM	239	N	ILE	A	33	45.387	9.797	46.946	1.00	29.67
ATOM	240	CA	ILE	A	33	44.881	8.613	46.280	1.00	24.69
ATOM	241	C	ILE	A	33	44.395	7.507	47.197	1.00	25.53
ATOM	242	O	ILE	A	33	45.210	6.775	47.773	1.00	27.97
ATOM	243	CB	ILE	A	33	45.960	8.043	45.366	1.00	22.67
ATOM	244	CG1	ILE	A	33	46.461	9.146	44.443	1.00	23.60
ATOM	245	CG2	ILE	A	33	45.427	6.863	44.584	1.00	20.17
ATOM	246	CD1	ILE	A	33	45.367	9.812	43.666	1.00	24.21

ATOM	247	N	GLN	A	34	43.070	7.392	47.333	1.00	23.41
ATOM	248	CA	GLN	A	34	42.473	6.335	48.145	1.00	25.62
ATOM	249	C	GLN	A	34	41.892	5.298	47.207	1.00	27.56
ATOM	250	O	GLN	A	34	41.206	5.631	46.247	1.00	29.92
ATOM	251	CB	GLN	A	34	41.369	6.861	49.053	1.00	25.13
ATOM	252	CG	GLN	A	34	41.858	7.516	50.346	1.00	28.27
ATOM	253	CD	GLN	A	34	40.716	7.841	51.287	1.00	27.91
ATOM	254	OE1	GLN	A	34	39.551	7.899	50.873	1.00	25.68
ATOM	255	NE2	GLN	A	34	41.041	8.074	52.556	1.00	25.58
ATOM	256	N	SER	A	35	42.165	4.033	47.496	1.00	29.63
ATOM	257	CA	SER	A	35	41.708	2.940	46.651	1.00	28.77
ATOM	258	C	SER	A	35	41.166	1.777	47.477	1.00	26.99
ATOM	259	O	SER	A	35	41.692	1.485	48.536	1.00	26.83
ATOM	260	CB	SER	A	35	42.888	2.478	45.795	1.00	29.12
ATOM	261	OG	SER	A	35	44.051	3.235	46.128	1.00	32.02
ATOM	262	N	TRP	A	36	40.107	1.131	46.987	1.00	26.38
ATOM	263	CA	TRP	A	36	39.503	-0.019	47.662	1.00	24.35
ATOM	264	C	TRP	A	36	38.800	-0.967	46.683	1.00	25.63
ATOM	265	O	TRP	A	36	38.614	-0.646	45.508	1.00	27.12
ATOM	266	CB	TRP	A	36	38.509	0.443	48.724	1.00	22.42
ATOM	267	CG	TRP	A	36	37.322	1.172	48.183	1.00	18.63
ATOM	268	CD1	TRP	A	36	36.062	0.678	48.011	1.00	18.89
ATOM	269	CD2	TRP	A	36	37.286	2.531	47.751	1.00	12.75
ATOM	270	NE1	TRP	A	36	35.240	1.649	47.500	1.00	17.69
ATOM	271	CE2	TRP	A	36	35.965	2.800	47.330	1.00	13.14
ATOM	272	CE3	TRP	A	36	38.243	3.548	47.674	1.00	7.88
ATOM	273	CZ2	TRP	A	36	35.571	4.054	46.840	1.00	8.59
ATOM	274	CZ3	TRP	A	36	37.852	4.801	47.183	1.00	13.72
ATOM	275	CH2	TRP	A	36	36.521	5.040	46.774	1.00	10.03
ATOM	276	N	VAL	A	37	38.398	-2.133	47.171	1.00	23.97
ATOM	277	CA	VAL	A	37	37.741	-3.098	46.309	1.00	21.90
ATOM	278	C	VAL	A	37	36.392	-3.573	46.830	1.00	21.63
ATOM	279	O	VAL	A	37	36.313	-4.298	47.817	1.00	22.93
ATOM	280	CB	VAL	A	37	38.635	-4.332	46.082	1.00	19.67
ATOM	281	CG1	VAL	A	37	37.857	-5.388	45.332	1.00	22.26
ATOM	282	CG2	VAL	A	37	39.875	-3.945	45.313	1.00	18.72
ATOM	283	N	GLU	A	38	35.327	-3.165	46.157	1.00	21.99
ATOM	284	CA	GLU	A	38	33.991	-3.575	46.545	1.00	21.66
ATOM	285	C	GLU	A	38	33.676	-4.892	45.833	1.00	23.61
ATOM	286	O	GLU	A	38	34.364	-5.275	44.879	1.00	24.27
ATOM	287	CB	GLU	A	38	32.997	-2.497	46.149	1.00	20.63
ATOM	288	CG	GLU	A	38	33.278	-1.163	46.801	1.00	20.04
ATOM	289	CD	GLU	A	38	32.368	-0.072	46.284	1.00	25.39
ATOM	290	OE1	GLU	A	38	31.219	-0.393	45.894	1.00	24.29
ATOM	291	OE2	GLU	A	38	32.789	1.106	46.277	1.00	24.33
ATOM	292	N	ASN	A	39	32.665	-5.606	46.304	1.00	22.31
ATOM	293	CA	ASN	A	39	32.330	-6.858	45.668	1.00	25.19
ATOM	294	C	ASN	A	39	31.155	-6.616	44.724	1.00	29.01
ATOM	295	O	ASN	A	39	30.686	-5.484	44.593	1.00	28.58
ATOM	296	CB	ASN	A	39	31.996	-7.927	46.709	1.00	21.40
ATOM	297	CG	ASN	A	39	30.718	-7.644	47.456	1.00	21.21
ATOM	298	OD1	ASN	A	39	30.121	-6.584	47.307	1.00	26.88
ATOM	299	ND2	ASN	A	39	30.290	-8.596	48.274	1.00	25.71
ATOM	300	N	ALA	A	40	30.696	-7.671	44.054	1.00	30.92
ATOM	301	CA	ALA	A	40	29.590	-7.550	43.118	1.00	31.42
ATOM	302	C	ALA	A	40	28.427	-6.763	43.705	1.00	31.15
ATOM	303	O	ALA	A	40	27.835	-5.937	43.023	1.00	31.66
ATOM	304	CB	ALA	A	40	29.122	-8.928	42.688	1.00	33.80
ATOM	305	N	ASP	A	41	28.097	-7.009	44.965	1.00	30.47
ATOM	306	CA	ASP	A	41	26.998	-6.287	45.568	1.00	31.28
ATOM	307	C	ASP	A	41	27.428	-4.916	46.074	1.00	30.03
ATOM	308	O	ASP	A	41	26.698	-4.274	46.813	1.00	32.71

ATOM	309	CB	ASP	A	41	26.387	-7.095	46.713	1.00	36.45
ATOM	310	CG	ASP	A	41	25.795	-8.426	46.254	1.00	40.44
ATOM	311	OD1	ASP	A	41	24.970	-8.439	45.310	1.00	36.46
ATOM	312	OD2	ASP	A	41	26.156	-9.463	46.858	1.00	41.50
ATOM	313	N	GLY	A	42	28.612	-4.472	45.674	1.00	29.38
ATOM	314	CA	GLY	A	42	29.114	-3.170	46.092	1.00	28.27
ATOM	315	C	GLY	A	42	29.382	-2.985	47.579	1.00	27.78
ATOM	316	O	GLY	A	42	29.375	-1.863	48.103	1.00	25.32
ATOM	317	N	VAL	A	43	29.619	-4.083	48.277	1.00	26.92
ATOM	318	CA	VAL	A	43	29.881	-3.987	49.695	1.00	28.31
ATOM	319	C	VAL	A	43	31.386	-4.059	49.927	1.00	31.14
ATOM	320	O	VAL	A	43	32.085	-4.963	49.440	1.00	31.37
ATOM	321	CB	VAL	A	43	29.162	-5.116	50.488	1.00	27.57
ATOM	322	CG1	VAL	A	43	27.755	-5.320	49.948	1.00	23.21
ATOM	323	CG2	VAL	A	43	29.944	-6.401	50.408	1.00	30.48
ATOM	324	N	LYS	A	44	31.895	-3.078	50.656	1.00	32.41
ATOM	325	CA	LYS	A	44	33.310	-3.046	50.956	1.00	33.08
ATOM	326	C	LYS	A	44	33.662	-4.166	51.923	1.00	35.10
ATOM	327	O	LYS	A	44	33.716	-3.936	53.130	1.00	38.13
ATOM	328	CB	LYS	A	44	33.699	-1.718	51.600	1.00	29.13
ATOM	329	CG	LYS	A	44	33.348	-0.499	50.797	1.00	34.73
ATOM	330	CD	LYS	A	44	34.158	0.694	51.271	1.00	36.63
ATOM	331	CE	LYS	A	44	33.693	1.968	50.610	1.00	36.77
ATOM	332	NZ	LYS	A	44	32.271	2.258	50.945	1.00	44.32
ATOM	333	N	ASP	A	45	33.851	-5.383	51.424	1.00	33.54
ATOM	334	CA	ASP	A	45	34.260	-6.456	52.316	1.00	30.35
ATOM	335	C	ASP	A	45	35.767	-6.467	52.192	1.00	32.82
ATOM	336	O	ASP	A	45	36.355	-5.542	51.616	1.00	35.10
ATOM	337	CB	ASP	A	45	33.689	-7.798	51.890	1.00	31.14
ATOM	338	CG	ASP	A	45	33.677	-7.983	50.398	1.00	28.32
ATOM	339	OD1	ASP	A	45	34.714	-7.736	49.741	1.00	30.84
ATOM	340	OD2	ASP	A	45	32.618	-8.389	49.890	1.00	27.36
ATOM	341	N	GLY	A	46	36.414	-7.507	52.681	1.00	31.17
ATOM	342	CA	GLY	A	46	37.856	-7.488	52.598	1.00	32.95
ATOM	343	C	GLY	A	46	38.528	-8.278	51.510	1.00	34.73
ATOM	344	O	GLY	A	46	39.735	-8.147	51.344	1.00	38.74
ATOM	345	N	ARG	A	47	37.771	-9.084	50.772	1.00	34.16
ATOM	346	CA	ARG	A	47	38.341	-9.921	49.730	1.00	29.52
ATOM	347	C	ARG	A	47	39.626	-9.399	49.104	1.00	26.40
ATOM	348	O	ARG	A	47	40.567	-10.156	48.892	1.00	26.44
ATOM	349	CB	ARG	A	47	37.309	-10.185	48.652	1.00	34.85
ATOM	350	CG	ARG	A	47	36.474	-11.416	48.908	1.00	40.14
ATOM	351	CD	ARG	A	47	35.403	-11.192	49.931	1.00	47.25
ATOM	352	NE	ARG	A	47	34.821	-12.471	50.317	1.00	55.58
ATOM	353	CZ	ARG	A	47	35.517	-13.446	50.890	1.00	57.63
ATOM	354	NH1	ARG	A	47	36.806	-13.275	51.129	1.00	56.21
ATOM	355	NH2	ARG	A	47	34.930	-14.581	51.239	1.00	62.42
ATOM	356	N	PHE	A	48	39.680	-8.109	48.817	1.00	23.33
ATOM	357	CA	PHE	A	48	40.879	-7.543	48.219	1.00	23.58
ATOM	358	C	PHE	A	48	41.308	-6.254	48.878	1.00	23.94
ATOM	359	O	PHE	A	48	40.492	-5.381	49.140	1.00	23.46
ATOM	360	CB	PHE	A	48	40.672	-7.303	46.713	1.00	24.19
ATOM	361	CG	PHE	A	48	40.539	-8.567	45.923	1.00	22.64
ATOM	362	CD1	PHE	A	48	39.337	-9.276	45.925	1.00	22.13
ATOM	363	CD2	PHE	A	48	41.650	-9.120	45.293	1.00	21.19
ATOM	364	CE1	PHE	A	48	39.242	-10.526	45.329	1.00	23.86
ATOM	365	CE2	PHE	A	48	41.574	-10.368	44.692	1.00	23.87
ATOM	366	CZ	PHE	A	48	40.367	-11.080	44.710	1.00	23.51
ATOM	367	N	ILE	A	49	42.603	-6.136	49.138	1.00	26.76
ATOM	368	CA	ILE	A	49	43.147	-4.938	49.755	1.00	30.41
ATOM	369	C	ILE	A	49	44.242	-4.331	48.889	1.00	31.88
ATOM	370	O	ILE	A	49	45.149	-5.025	48.438	1.00	36.09

ATOM	371	CB	ILE	A	49	43.654	-5.255	51.144	1.00	30.39
ATOM	372	CG1	ILE	A	49	42.446	-5.428	52.059	1.00	32.64
ATOM	373	CG2	ILE	A	49	44.536	-4.148	51.647	1.00	31.21
ATOM	374	CD1	ILE	A	49	42.783	-6.031	53.385	1.00	46.29
ATOM	375	N	VAL	A	50	44.141	-3.026	48.667	1.00	31.38
ATOM	376	CA	VAL	A	50	45.068	-2.287	47.813	1.00	28.44
ATOM	377	C	VAL	A	50	46.077	-1.468	48.578	1.00	27.71
ATOM	378	O	VAL	A	50	45.722	-0.788	49.532	1.00	29.04
ATOM	379	CB	VAL	A	50	44.290	-1.279	46.917	1.00	28.09
ATOM	380	CG1	VAL	A	50	45.220	-0.635	45.906	1.00	25.45
ATOM	381	CG2	VAL	A	50	43.111	-1.972	46.249	1.00	27.14
ATOM	382	N	THR	A	51	47.331	-1.515	48.149	1.00	29.14
ATOM	383	CA	THR	A	51	48.370	-0.683	48.762	1.00	29.59
ATOM	384	C	THR	A	51	49.088	0.093	47.663	1.00	29.81
ATOM	385	O	THR	A	51	49.269	-0.400	46.551	1.00	29.60
ATOM	386	CB	THR	A	51	49.449	-1.480	49.541	1.00	28.42
ATOM	387	OG1	THR	A	51	50.111	-2.389	48.660	1.00	29.88
ATOM	388	CG2	THR	A	51	48.847	-2.238	50.688	1.00	29.95
ATOM	389	N	PRO	A	52	49.502	1.326	47.967	1.00	30.80
ATOM	390	CA	PRO	A	52	49.265	1.892	49.300	1.00	31.15
ATOM	391	C	PRO	A	52	47.813	2.335	49.529	1.00	31.63
ATOM	392	O	PRO	A	52	47.170	2.890	48.638	1.00	34.74
ATOM	393	CB	PRO	A	52	50.281	3.040	49.376	1.00	27.97
ATOM	394	CG	PRO	A	52	50.554	3.379	47.954	1.00	28.70
ATOM	395	CD	PRO	A	52	50.560	2.065	47.253	1.00	29.75
ATOM	396	N	PRO	A	53	47.275	2.082	50.732	1.00	31.41
ATOM	397	CA	PRO	A	53	45.896	2.459	51.057	1.00	32.39
ATOM	398	C	PRO	A	53	45.622	3.966	50.969	1.00	34.26
ATOM	399	O	PRO	A	53	44.491	4.389	50.732	1.00	33.21
ATOM	400	CB	PRO	A	53	45.722	1.905	52.468	1.00	30.90
ATOM	401	CG	PRO	A	53	47.095	2.009	53.035	1.00	25.84
ATOM	402	CD	PRO	A	53	47.952	1.517	51.911	1.00	30.17
ATOM	403	N	LEU	A	54	46.665	4.769	51.150	1.00	35.32
ATOM	404	CA	LEU	A	54	46.535	6.225	51.081	1.00	36.08
ATOM	405	C	LEU	A	54	47.870	6.889	50.749	1.00	34.33
ATOM	406	O	LEU	A	54	48.865	6.617	51.422	1.00	35.78
ATOM	407	CB	LEU	A	54	46.043	6.776	52.427	1.00	37.49
ATOM	408	CG	LEU	A	54	45.998	8.307	52.528	1.00	33.13
ATOM	409	CD1	LEU	A	54	44.737	8.836	51.855	1.00	35.60
ATOM	410	CD2	LEU	A	54	46.022	8.714	53.974	1.00	31.16
ATOM	411	N	PHE	A	55	47.900	7.748	49.731	1.00	29.57
ATOM	412	CA	PHE	A	55	49.141	8.450	49.394	1.00	29.38
ATOM	413	C	PHE	A	55	48.922	9.694	48.547	1.00	31.48
ATOM	414	O	PHE	A	55	47.822	9.926	48.052	1.00	36.64
ATOM	415	CB	PHE	A	55	50.119	7.505	48.706	1.00	22.58
ATOM	416	CG	PHE	A	55	49.659	7.011	47.378	1.00	22.54
ATOM	417	CD1	PHE	A	55	48.828	5.901	47.288	1.00	21.89
ATOM	418	CD2	PHE	A	55	50.052	7.653	46.205	1.00	25.16
ATOM	419	CE1	PHE	A	55	48.394	5.430	46.047	1.00	21.04
ATOM	420	CE2	PHE	A	55	49.625	7.191	44.957	1.00	26.71
ATOM	421	CZ	PHE	A	55	48.791	6.072	44.882	1.00	23.11
ATOM	422	N	ALA	A	56	49.953	10.516	48.386	1.00	32.17
ATOM	423	CA	ALA	A	56	49.784	11.728	47.582	1.00	32.42
ATOM	424	C	ALA	A	56	50.608	11.753	46.304	1.00	33.53
ATOM	425	O	ALA	A	56	51.714	11.219	46.241	1.00	35.65
ATOM	426	CB	ALA	A	56	50.097	12.951	48.405	1.00	32.42
ATOM	427	N	MET	A	57	50.049	12.367	45.270	1.00	34.03
ATOM	428	CA	MET	A	57	50.739	12.490	44.003	1.00	32.43
ATOM	429	C	MET	A	57	50.780	13.962	43.712	1.00	33.76
ATOM	430	O	MET	A	57	49.799	14.550	43.248	1.00	30.82
ATOM	431	CB	MET	A	57	50.004	11.740	42.897	1.00	30.13
ATOM	432	CG	MET	A	57	50.036	10.246	43.100	1.00	31.49

ATOM	433	SD	MET	A	57	49.074	9.344	41.915	1.00	33.89
ATOM	434	CE	MET	A	57	50.199	9.302	40.578	1.00	33.24
ATOM	435	N	LYS	A	58	51.922	14.556	44.038	1.00	35.57
ATOM	436	CA	LYS	A	58	52.128	15.971	43.821	1.00	38.78
ATOM	437	C	LYS	A	58	52.442	16.132	42.356	1.00	37.45
ATOM	438	O	LYS	A	58	53.502	15.719	41.905	1.00	35.37
ATOM	439	CB	LYS	A	58	53.303	16.478	44.669	1.00	44.34
ATOM	440	CG	LYS	A	58	53.155	16.218	46.173	1.00	48.33
ATOM	441	CD	LYS	A	58	54.427	16.550	46.960	1.00	50.18
ATOM	442	CE	LYS	A	58	54.718	18.052	46.996	1.00	51.80
ATOM	443	NZ	LYS	A	58	55.917	18.388	47.828	1.00	49.74
ATOM	444	N	GLY	A	59	51.502	16.713	41.616	1.00	39.54
ATOM	445	CA	GLY	A	59	51.699	16.937	40.193	1.00	42.64
ATOM	446	C	GLY	A	59	51.913	15.655	39.423	1.00	44.63
ATOM	447	O	GLY	A	59	51.627	14.573	39.928	1.00	46.74
ATOM	448	N	LYS	A	60	52.418	15.772	38.199	1.00	46.32
ATOM	449	CA	LYS	A	60	52.659	14.606	37.359	1.00	49.05
ATOM	450	C	LYS	A	60	53.549	13.583	38.047	1.00	49.21
ATOM	451	O	LYS	A	60	54.690	13.886	38.408	1.00	49.49
ATOM	452	CB	LYS	A	60	53.296	15.027	36.031	1.00	50.92
ATOM	453	CG	LYS	A	60	52.347	15.781	35.099	1.00	55.71
ATOM	454	CD	LYS	A	60	53.020	16.114	33.775	1.00	60.38
ATOM	455	CE	LYS	A	60	52.008	16.439	32.681	1.00	62.81
ATOM	456	NZ	LYS	A	60	51.293	17.726	32.901	1.00	67.47
ATOM	457	N	LYS	A	61	53.001	12.384	38.245	1.00	47.12
ATOM	458	CA	LYS	A	61	53.702	11.255	38.867	1.00	45.88
ATOM	459	C	LYS	A	61	53.142	10.041	38.144	1.00	46.53
ATOM	460	O	LYS	A	61	52.303	10.187	37.247	1.00	45.69
ATOM	461	CB	LYS	A	61	53.364	11.123	40.362	1.00	45.20
ATOM	462	CG	LYS	A	61	53.826	12.251	41.252	1.00	45.93
ATOM	463	CD	LYS	A	61	55.339	12.287	41.383	1.00	51.47
ATOM	464	CE	LYS	A	61	55.882	11.010	42.020	1.00	54.50
ATOM	465	NZ	LYS	A	61	57.370	10.921	41.881	1.00	55.55
ATOM	466	N	GLU	A	62	53.575	8.848	38.541	1.00	44.79
ATOM	467	CA	GLU	A	62	53.075	7.633	37.911	1.00	44.33
ATOM	468	C	GLU	A	62	53.394	6.465	38.841	1.00	43.60
ATOM	469	O	GLU	A	62	54.311	5.687	38.573	1.00	47.40
ATOM	470	CB	GLU	A	62	53.763	7.451	36.558	1.00	46.41
ATOM	471	CG	GLU	A	62	53.062	6.535	35.556	1.00	54.92
ATOM	472	CD	GLU	A	62	52.798	5.139	36.097	1.00	58.62
ATOM	473	OE1	GLU	A	62	51.782	4.985	36.811	1.00	63.41
ATOM	474	OE2	GLU	A	62	53.597	4.206	35.818	1.00	55.40
ATOM	475	N	ASN	A	63	52.645	6.329	39.933	1.00	39.60
ATOM	476	CA	ASN	A	63	52.933	5.248	40.876	1.00	37.05
ATOM	477	C	ASN	A	63	52.212	3.950	40.566	1.00	33.96
ATOM	478	O	ASN	A	63	51.475	3.853	39.594	1.00	33.57
ATOM	479	CB	ASN	A	63	52.616	5.669	42.322	1.00	37.64
ATOM	480	CG	ASN	A	63	52.940	7.108	42.593	1.00	35.45
ATOM	481	OD1	ASN	A	63	52.067	7.965	42.528	1.00	37.20
ATOM	482	ND2	ASN	A	63	54.203	7.391	42.884	1.00	33.78
ATOM	483	N	THR	A	64	52.415	2.956	41.422	1.00	32.02
ATOM	484	CA	THR	A	64	51.792	1.663	41.217	1.00	32.21
ATOM	485	C	THR	A	64	50.871	1.208	42.341	1.00	33.21
ATOM	486	O	THR	A	64	51.184	1.351	43.516	1.00	37.03
ATOM	487	CB	THR	A	64	52.862	0.580	41.024	1.00	29.58
ATOM	488	OG1	THR	A	64	53.783	0.998	40.014	1.00	26.45
ATOM	489	CG2	THR	A	64	52.230	-0.726	40.602	1.00	27.93
ATOM	490	N	LEU	A	65	49.735	0.645	41.973	1.00	31.64
ATOM	491	CA	LEU	A	65	48.819	0.149	42.968	1.00	32.36
ATOM	492	C	LEU	A	65	48.963	-1.359	43.073	1.00	35.34
ATOM	493	O	LEU	A	65	49.118	-2.035	42.056	1.00	36.59
ATOM	494	CB	LEU	A	65	47.397	0.519	42.579	1.00	31.52

ATOM	495	CG	LEU	A	65	47.143	2.009	42.764	1.00	30.42
ATOM	496	CD1	LEU	A	65	45.670	2.344	42.599	1.00	22.49
ATOM	497	CD2	LEU	A	65	47.620	2.385	44.148	1.00	32.70
ATOM	498	N	ARG	A	66	48.921	-1.891	44.296	1.00	35.78
ATOM	499	CA	ARG	A	66	49.038	-3.338	44.492	1.00	34.87
ATOM	500	C	ARG	A	66	47.792	-3.971	45.110	1.00	35.68
ATOM	501	O	ARG	A	66	47.482	-3.773	46.294	1.00	36.83
ATOM	502	CB	ARG	A	66	50.256	-3.677	45.352	1.00	33.88
ATOM	503	CG	ARG	A	66	51.576	-3.453	44.646	1.00	38.03
ATOM	504	CD	ARG	A	66	52.377	-2.331	45.291	1.00	44.02
ATOM	505	NE	ARG	A	66	53.539	-1.959	44.487	1.00	46.87
ATOM	506	CZ	ARG	A	66	54.488	-2.803	44.100	1.00	46.27
ATOM	507	NH1	ARG	A	66	54.422	-4.081	44.441	1.00	45.98
ATOM	508	NH2	ARG	A	66	55.505	-2.361	43.372	1.00	46.56
ATOM	509	N	ILE	A	67	47.077	-4.732	44.287	1.00	32.09
ATOM	510	CA	ILE	A	67	45.881	-5.411	44.730	1.00	29.08
ATOM	511	C	ILE	A	67	46.315	-6.690	45.418	1.00	29.96
ATOM	512	O	ILE	A	67	47.055	-7.491	44.857	1.00	32.04
ATOM	513	CB	ILE	A	67	44.980	-5.771	43.558	1.00	28.59
ATOM	514	CG1	ILE	A	67	44.426	-4.507	42.892	1.00	28.79
ATOM	515	CG2	ILE	A	67	43.844	-6.640	44.053	1.00	33.54
ATOM	516	CD1	ILE	A	67	45.365	-3.832	41.958	1.00	24.40
ATOM	517	N	LEU	A	68	45.854	-6.898	46.637	1.00	29.61
ATOM	518	CA	LEU	A	68	46.263	-8.083	47.349	1.00	32.76
ATOM	519	C	LEU	A	68	45.113	-9.040	47.613	1.00	36.78
ATOM	520	O	LEU	A	68	44.055	-8.640	48.101	1.00	37.08
ATOM	521	CB	LEU	A	68	46.926	-7.695	48.674	1.00	34.69
ATOM	522	CG	LEU	A	68	48.145	-6.770	48.667	1.00	30.71
ATOM	523	CD1	LEU	A	68	48.766	-6.818	50.034	1.00	25.88
ATOM	524	CD2	LEU	A	68	49.162	-7.205	47.629	1.00	33.05
ATOM	525	N	ASP	A	69	45.336	-10.310	47.282	1.00	39.03
ATOM	526	CA	ASP	A	69	44.346	-11.357	47.485	1.00	39.08
ATOM	527	C	ASP	A	69	44.196	-11.508	48.990	1.00	39.12
ATOM	528	O	ASP	A	69	45.184	-11.655	49.689	1.00	40.45
ATOM	529	CB	ASP	A	69	44.850	-12.652	46.847	1.00	39.86
ATOM	530	CG	ASP	A	69	43.858	-13.800	46.956	1.00	44.79
ATOM	531	OD1	ASP	A	69	42.855	-13.671	47.697	1.00	44.81
ATOM	532	OD2	ASP	A	69	44.098	-14.842	46.293	1.00	45.44
ATOM	533	N	ALA	A	70	42.972	-11.445	49.495	1.00	40.35
ATOM	534	CA	ALA	A	70	42.760	-11.578	50.926	1.00	44.59
ATOM	535	C	ALA	A	70	41.837	-12.735	51.243	1.00	47.83
ATOM	536	O	ALA	A	70	41.752	-13.170	52.388	1.00	48.43
ATOM	537	CB	ALA	A	70	42.187	-10.297	51.501	1.00	41.74
ATOM	538	N	THR	A	71	41.132	-13.230	50.238	1.00	50.52
ATOM	539	CA	THR	A	71	40.238	-14.348	50.474	1.00	57.83
ATOM	540	C	THR	A	71	40.977	-15.671	50.332	1.00	63.01
ATOM	541	O	THR	A	71	41.041	-16.240	49.238	1.00	65.18
ATOM	542	CB	THR	A	71	39.059	-14.343	49.495	1.00	57.54
ATOM	543	OG1	THR	A	71	38.279	-15.534	49.693	1.00	57.21
ATOM	544	CG2	THR	A	71	39.562	-14.260	48.053	1.00	54.94
ATOM	545	N	ASN	A	72	41.538	-16.159	51.433	1.00	66.38
ATOM	546	CA	ASN	A	72	42.279	-17.411	51.391	1.00	72.47
ATOM	547	C	ASN	A	72	41.447	-18.503	50.751	1.00	73.26
ATOM	548	O	ASN	A	72	40.767	-19.254	51.440	1.00	75.13
ATOM	549	CB	ASN	A	72	42.716	-17.828	52.802	1.00	77.55
ATOM	550	CG	ASN	A	72	44.024	-17.153	53.234	1.00	82.03
ATOM	551	OD1	ASN	A	72	44.589	-17.467	54.291	1.00	82.76
ATOM	552	ND2	ASN	A	72	44.510	-16.222	52.410	1.00	83.17
ATOM	553	N	ASN	A	73	41.522	-18.585	49.424	1.00	74.74
ATOM	554	CA	ASN	A	73	40.765	-19.561	48.645	1.00	75.22
ATOM	555	C	ASN	A	73	39.382	-19.820	49.227	1.00	74.44
ATOM	556	O	ASN	A	73	38.929	-20.962	49.300	1.00	76.28

ATOM	557	CB	ASN	A	73	41.536	-20.876	48.534	1.00	77.13
ATOM	558	CG	ASN	A	73	42.494	-20.885	47.364	1.00	78.85
ATOM	559	OD1	ASN	A	73	43.438	-20.093	47.310	1.00	79.99
ATOM	560	ND2	ASN	A	73	42.253	-21.781	46.411	1.00	79.01
ATOM	561	N	GLN	A	74	38.718	-18.748	49.642	1.00	71.52
ATOM	562	CA	GLN	A	74	37.394	-18.860	50.214	1.00	70.23
ATOM	563	C	GLN	A	74	36.364	-18.539	49.141	1.00	67.45
ATOM	564	O	GLN	A	74	35.177	-18.427	49.420	1.00	69.76
ATOM	565	CB	GLN	A	74	37.275	-17.910	51.412	1.00	74.48
ATOM	566	CG	GLN	A	74	38.302	-18.227	52.519	1.00	83.29
ATOM	567	CD	GLN	A	74	38.294	-17.255	53.705	1.00	86.28
ATOM	568	OE1	GLN	A	74	39.174	-17.312	54.575	1.00	85.93
ATOM	569	NE2	GLN	A	74	37.304	-16.368	53.746	1.00	87.40
ATOM	570	N	LEU	A	75	36.834	-18.424	47.901	1.00	63.44
ATOM	571	CA	LEU	A	75	35.983	-18.106	46.751	1.00	58.28
ATOM	572	C	LEU	A	75	35.797	-19.253	45.764	1.00	57.87
ATOM	573	O	LEU	A	75	36.550	-20.228	45.759	1.00	57.75
ATOM	574	CB	LEU	A	75	36.572	-16.936	45.960	1.00	53.49
ATOM	575	CG	LEU	A	75	36.218	-15.483	46.251	1.00	49.18
ATOM	576	CD1	LEU	A	75	37.056	-14.613	45.349	1.00	46.12
ATOM	577	CD2	LEU	A	75	34.738	-15.223	46.021	1.00	43.02
ATOM	578	N	PRO	A	76	34.787	-19.131	44.895	1.00	56.32
ATOM	579	CA	PRO	A	76	34.475	-20.130	43.874	1.00	55.49
ATOM	580	C	PRO	A	76	35.695	-20.383	42.990	1.00	55.02
ATOM	581	O	PRO	A	76	36.252	-19.440	42.430	1.00	56.47
ATOM	582	CB	PRO	A	76	33.341	-19.473	43.101	1.00	53.29
ATOM	583	CG	PRO	A	76	32.605	-18.757	44.172	1.00	55.19
ATOM	584	CD	PRO	A	76	33.720	-18.120	44.971	1.00	57.73
ATOM	585	N	GLN	A	77	36.096	-21.647	42.860	1.00	53.26
ATOM	586	CA	GLN	A	77	37.249	-22.013	42.042	1.00	52.64
ATOM	587	C	GLN	A	77	36.896	-22.541	40.657	1.00	51.25
ATOM	588	O	GLN	A	77	37.782	-22.901	39.880	1.00	51.32
ATOM	589	CB	GLN	A	77	38.095	-23.064	42.755	1.00	55.55
ATOM	590	CG	GLN	A	77	38.773	-22.575	44.010	1.00	59.85
ATOM	591	CD	GLN	A	77	39.742	-21.440	43.755	1.00	62.56
ATOM	592	OE1	GLN	A	77	40.304	-20.879	44.696	1.00	67.95
ATOM	593	NE2	GLN	A	77	39.945	-21.093	42.484	1.00	60.00
ATOM	594	N	ASP	A	78	35.611	-22.591	40.336	1.00	49.57
ATOM	595	CA	ASP	A	78	35.203	-23.092	39.031	1.00	47.48
ATOM	596	C	ASP	A	78	34.775	-21.978	38.087	1.00	46.09
ATOM	597	O	ASP	A	78	34.219	-22.242	37.016	1.00	43.61
ATOM	598	CB	ASP	A	78	34.047	-24.082	39.176	1.00	48.84
ATOM	599	CG	ASP	A	78	32.716	-23.398	39.445	1.00	51.03
ATOM	600	OD1	ASP	A	78	32.703	-22.310	40.060	1.00	51.57
ATOM	601	OD2	ASP	A	78	31.674	-23.956	39.041	1.00	54.00
ATOM	602	N	ARG	A	79	35.032	-20.734	38.477	1.00	45.21
ATOM	603	CA	ARG	A	79	34.628	-19.607	37.650	1.00	43.69
ATOM	604	C	ARG	A	79	35.061	-18.303	38.280	1.00	41.79
ATOM	605	O	ARG	A	79	35.476	-18.263	39.435	1.00	42.16
ATOM	606	CB	ARG	A	79	33.111	-19.584	37.521	1.00	41.84
ATOM	607	CG	ARG	A	79	32.465	-19.163	38.815	1.00	39.38
ATOM	608	CD	ARG	A	79	31.011	-19.522	38.854	1.00	40.26
ATOM	609	NE	ARG	A	79	30.822	-20.904	39.271	1.00	39.01
ATOM	610	CZ	ARG	A	79	29.657	-21.534	39.229	1.00	39.70
ATOM	611	NH1	ARG	A	79	28.575	-20.897	38.789	1.00	39.78
ATOM	612	NH2	ARG	A	79	29.576	-22.799	39.616	1.00	38.42
ATOM	613	N	GLU	A	80	34.914	-17.235	37.507	1.00	39.60
ATOM	614	CA	GLU	A	80	35.257	-15.883	37.937	1.00	36.84
ATOM	615	C	GLU	A	80	34.234	-15.253	38.907	1.00	32.77
ATOM	616	O	GLU	A	80	33.037	-15.544	38.875	1.00	29.57
ATOM	617	CB	GLU	A	80	35.371	-14.962	36.713	1.00	36.96
ATOM	618	CG	GLU	A	80	36.638	-15.061	35.897	1.00	33.47

ATOM	619	CD	GLU	A	80	36.577	-14.168	34.665	1.00	33.89
ATOM	620	OE1	GLU	A	80	35.466	-13.705	34.324	1.00	36.17
ATOM	621	OE2	GLU	A	80	37.626	-13.936	34.029	1.00	29.03
ATOM	622	N	SER	A	81	34.726	-14.374	39.763	1.00	29.49
ATOM	623	CA	SER	A	81	33.864	-13.674	40.689	1.00	29.08
ATOM	624	C	SER	A	81	34.042	-12.195	40.339	1.00	28.83
ATOM	625	O	SER	A	81	35.164	-11.746	40.084	1.00	28.55
ATOM	626	CB	SER	A	81	34.298	-13.955	42.123	1.00	28.52
ATOM	627	OG	SER	A	81	34.149	-15.324	42.442	1.00	30.46
ATOM	628	N	LEU	A	82	32.944	-11.441	40.291	1.00	27.10
ATOM	629	CA	LEU	A	82	33.027	-10.020	39.949	1.00	21.97
ATOM	630	C	LEU	A	82	33.249	-9.116	41.154	1.00	21.82
ATOM	631	O	LEU	A	82	32.562	-9.218	42.187	1.00	20.09
ATOM	632	CB	LEU	A	82	31.760	-9.573	39.211	1.00	18.37
ATOM	633	CG	LEU	A	82	31.497	-8.061	39.222	1.00	19.87
ATOM	634	CD1	LEU	A	82	32.590	-7.292	38.522	1.00	17.79
ATOM	635	CD2	LEU	A	82	30.196	-7.796	38.543	1.00	23.90
ATOM	636	N	PHE	A	83	34.230	-8.237	41.021	1.00	18.87
ATOM	637	CA	PHE	A	83	34.526	-7.294	42.078	1.00	20.62
ATOM	638	C	PHE	A	83	34.689	-5.943	41.440	1.00	20.35
ATOM	639	O	PHE	A	83	34.863	-5.855	40.234	1.00	21.04
ATOM	640	CB	PHE	A	83	35.813	-7.671	42.799	1.00	23.24
ATOM	641	CG	PHE	A	83	35.693	-8.884	43.666	1.00	27.92
ATOM	642	CD1	PHE	A	83	35.228	-10.092	43.150	1.00	28.75
ATOM	643	CD2	PHE	A	83	36.094	-8.839	44.992	1.00	30.80
ATOM	644	CE1	PHE	A	83	35.170	-11.236	43.938	1.00	23.53
ATOM	645	CE2	PHE	A	83	36.042	-9.982	45.786	1.00	29.68
ATOM	646	CZ	PHE	A	83	35.581	-11.181	45.254	1.00	27.88
ATOM	647	N	TRP	A	84	34.630	-4.888	42.243	1.00	21.36
ATOM	648	CA	TRP	A	84	34.799	-3.545	41.715	1.00	21.59
ATOM	649	C	TRP	A	84	35.897	-2.784	42.424	1.00	21.28
ATOM	650	O	TRP	A	84	35.840	-2.618	43.639	1.00	19.54
ATOM	651	CB	TRP	A	84	33.488	-2.774	41.804	1.00	18.74
ATOM	652	CG	TRP	A	84	32.450	-3.388	40.950	1.00	17.83
ATOM	653	CD1	TRP	A	84	31.566	-4.339	41.310	1.00	20.11
ATOM	654	CD2	TRP	A	84	32.215	-3.123	39.561	1.00	21.07
ATOM	655	NE1	TRP	A	84	30.780	-4.697	40.236	1.00	23.22
ATOM	656	CE2	TRP	A	84	31.160	-3.961	39.148	1.00	20.94
ATOM	657	CE3	TRP	A	84	32.794	-2.256	38.626	1.00	20.77
ATOM	658	CZ2	TRP	A	84	30.663	-3.960	37.844	1.00	23.35
ATOM	659	CZ3	TRP	A	84	32.300	-2.253	37.332	1.00	23.12
ATOM	660	CH2	TRP	A	84	31.244	-3.103	36.952	1.00	24.87
ATOM	661	N	MET	A	85	36.900	-2.337	41.662	1.00	21.64
ATOM	662	CA	MET	A	85	37.998	-1.575	42.242	1.00	22.86
ATOM	663	C	MET	A	85	37.788	-0.089	42.028	1.00	24.55
ATOM	664	O	MET	A	85	37.542	0.361	40.905	1.00	24.92
ATOM	665	CB	MET	A	85	39.348	-1.971	41.659	1.00	21.06
ATOM	666	CG	MET	A	85	40.460	-1.446	42.529	1.00	29.90
ATOM	667	SD	MET	A	85	42.119	-1.831	42.018	1.00	41.85
ATOM	668	CE	MET	A	85	42.960	-0.367	42.516	1.00	32.11
ATOM	669	N	ASN	A	86	37.885	0.670	43.119	1.00	25.38
ATOM	670	CA	ASN	A	86	37.685	2.106	43.072	1.00	24.35
ATOM	671	C	ASN	A	86	38.936	2.850	43.465	1.00	23.63
ATOM	672	O	ASN	A	86	39.539	2.534	44.476	1.00	24.44
ATOM	673	CB	ASN	A	86	36.553	2.514	44.022	1.00	23.93
ATOM	674	CG	ASN	A	86	35.262	1.756	43.765	1.00	24.30
ATOM	675	OD1	ASN	A	86	35.170	0.559	44.021	1.00	25.29
ATOM	676	ND2	ASN	A	86	34.257	2.458	43.254	1.00	25.65
ATOM	677	N	VAL	A	87	39.329	3.830	42.657	1.00	23.78
ATOM	678	CA	VAL	A	87	40.498	4.657	42.961	1.00	24.34
ATOM	679	C	VAL	A	87	40.002	6.099	42.979	1.00	25.58
ATOM	680	O	VAL	A	87	39.592	6.668	41.955	1.00	25.08

ATOM	681	CB	VAL	A	87	41.632	4.486	41.920	1.00	24.03
ATOM	682	CG1	VAL	A	87	42.797	5.391	42.259	1.00	20.98
ATOM	683	CG2	VAL	A	87	42.098	3.050	41.904	1.00	21.25
ATOM	684	N	LYS	A	88	40.003	6.670	44.174	1.00	27.07
ATOM	685	CA	LYS	A	88	39.527	8.027	44.378	1.00	28.71
ATOM	686	C	LYS	A	88	40.696	8.977	44.513	1.00	29.32
ATOM	687	O	LYS	A	88	41.677	8.663	45.190	1.00	29.63
ATOM	688	CB	LYS	A	88	38.644	8.097	45.641	1.00	27.70
ATOM	689	CG	LYS	A	88	38.739	9.423	46.374	1.00	31.93
ATOM	690	CD	LYS	A	88	37.941	9.462	47.662	1.00	36.01
ATOM	691	CE	LYS	A	88	36.461	9.669	47.401	1.00	40.74
ATOM	692	NZ	LYS	A	88	35.678	9.930	48.648	1.00	41.67
ATOM	693	N	ALA	A	89	40.583	10.134	43.860	1.00	29.02
ATOM	694	CA	ALA	A	89	41.608	11.164	43.920	1.00	27.89
ATOM	695	C	ALA	A	89	41.038	12.331	44.713	1.00	29.61
ATOM	696	O	ALA	A	89	40.125	13.029	44.266	1.00	28.53
ATOM	697	CB	ALA	A	89	41.996	11.609	42.529	1.00	24.16
ATOM	698	N	ILE	A	90	41.580	12.528	45.907	1.00	31.17
ATOM	699	CA	ILE	A	90	41.124	13.594	46.779	1.00	34.36
ATOM	700	C	ILE	A	90	41.965	14.864	46.629	1.00	38.08
ATOM	701	O	ILE	A	90	43.172	14.860	46.856	1.00	41.96
ATOM	702	CB	ILE	A	90	41.160	13.129	48.247	1.00	30.12
ATOM	703	CG1	ILE	A	90	40.516	11.753	48.360	1.00	30.34
ATOM	704	CG2	ILE	A	90	40.407	14.094	49.121	1.00	30.37
ATOM	705	CD1	ILE	A	90	40.311	11.297	49.777	1.00	31.56
ATOM	706	N	PRO	A	91	41.336	15.967	46.229	1.00	39.24
ATOM	707	CA	PRO	A	91	42.028	17.242	46.056	1.00	43.22
ATOM	708	C	PRO	A	91	42.198	17.935	47.404	1.00	48.70
ATOM	709	O	PRO	A	91	41.301	17.866	48.256	1.00	50.33
ATOM	710	CB	PRO	A	91	41.080	18.008	45.151	1.00	41.90
ATOM	711	CG	PRO	A	91	39.751	17.557	45.647	1.00	39.30
ATOM	712	CD	PRO	A	91	39.945	16.063	45.763	1.00	39.66
ATOM	713	N	SER	A	92	43.331	18.607	47.608	1.00	51.95
ATOM	714	CA	SER	A	92	43.550	19.311	48.872	1.00	55.57
ATOM	715	C	SER	A	92	42.606	20.500	48.953	1.00	56.86
ATOM	716	O	SER	A	92	42.058	20.919	47.939	1.00	56.22
ATOM	717	CB	SER	A	92	44.994	19.784	48.975	1.00	54.92
ATOM	718	OG	SER	A	92	45.866	18.675	49.090	1.00	59.96
ATOM	719	N	MET	A	93	42.398	21.038	50.151	1.00	60.28
ATOM	720	CA	MET	A	93	41.500	22.188	50.295	1.00	63.97
ATOM	721	C	MET	A	93	42.246	23.496	50.053	1.00	63.95
ATOM	722	O	MET	A	93	43.408	23.645	50.442	1.00	64.89
ATOM	723	CB	MET	A	93	40.848	22.217	51.685	1.00	66.93
ATOM	724	CG	MET	A	93	39.762	23.283	51.820	1.00	70.99
ATOM	725	SD	MET	A	93	40.018	24.475	53.173	1.00	80.85
ATOM	726	CE	MET	A	93	38.657	24.043	54.288	1.00	71.79
ATOM	727	N	ASP	A	94	41.573	24.438	49.402	1.00	64.26
ATOM	728	CA	ASP	A	94	42.172	25.730	49.094	1.00	65.05
ATOM	729	C	ASP	A	94	42.004	26.714	50.248	1.00	66.44
ATOM	730	O	ASP	A	94	40.969	27.377	50.371	1.00	67.73
ATOM	731	CB	ASP	A	94	41.540	26.294	47.824	1.00	64.25
ATOM	732	CG	ASP	A	94	42.153	27.601	47.412	1.00	64.54
ATOM	733	OD1	ASP	A	94	42.956	28.137	48.199	1.00	67.55
ATOM	734	OD2	ASP	A	94	41.835	28.093	46.310	1.00	65.77
ATOM	735	N	LYS	A	95	43.032	26.819	51.085	1.00	66.22
ATOM	736	CA	LYS	A	95	42.986	27.700	52.244	1.00	65.20
ATOM	737	C	LYS	A	95	42.636	29.156	51.928	1.00	65.01
ATOM	738	O	LYS	A	95	42.406	29.954	52.834	1.00	64.70
ATOM	739	CB	LYS	A	95	44.320	27.651	52.993	1.00	64.79
ATOM	740	CG	LYS	A	95	44.641	26.318	53.657	1.00	65.78
ATOM	741	CD	LYS	A	95	45.424	25.406	52.729	1.00	68.19
ATOM	742	CE	LYS	A	95	45.945	24.170	53.456	1.00	67.54

ATOM	743	NZ	LYS	A	95	46.744	23.311	52.539	1.00	67.48
ATOM	744	N	SER	A	96	42.586	29.502	50.648	1.00	65.02
ATOM	745	CA	SER	A	96	42.276	30.872	50.251	1.00	64.92
ATOM	746	C	SER	A	96	40.776	31.136	50.145	1.00	66.12
ATOM	747	O	SER	A	96	40.295	32.181	50.590	1.00	67.24
ATOM	748	CB	SER	A	96	42.962	31.211	48.911	1.00	63.93
ATOM	749	OG	SER	A	96	42.430	30.491	47.818	1.00	60.29
ATOM	750	N	LYS	A	97	40.049	30.180	49.568	1.00	65.82
ATOM	751	CA	LYS	A	97	38.603	30.285	49.363	1.00	66.20
ATOM	752	C	LYS	A	97	37.789	29.872	50.599	1.00	66.22
ATOM	753	O	LYS	A	97	36.780	29.178	50.494	1.00	66.67
ATOM	754	CB	LYS	A	97	38.215	29.426	48.156	1.00	66.33
ATOM	755	CG	LYS	A	97	39.013	29.741	46.895	1.00	66.53
ATOM	756	CD	LYS	A	97	38.168	30.453	45.852	1.00	69.62
ATOM	757	CE	LYS	A	97	39.034	31.110	44.789	1.00	72.81
ATOM	758	NZ	LYS	A	97	39.998	32.085	45.393	1.00	74.82
ATOM	759	N	LEU	A	98	38.226	30.343	51.762	1.00	66.68
ATOM	760	CA	LEU	A	98	37.609	30.031	53.054	1.00	66.57
ATOM	761	C	LEU	A	98	36.223	30.661	53.307	1.00	65.79
ATOM	762	O	LEU	A	98	35.278	29.966	53.671	1.00	65.12
ATOM	763	CB	LEU	A	98	38.594	30.440	54.171	1.00	66.59
ATOM	764	CG	LEU	A	98	39.051	29.519	55.317	1.00	61.76
ATOM	765	CD1	LEU	A	98	38.165	29.732	56.512	1.00	61.19
ATOM	766	CD2	LEU	A	98	39.060	28.068	54.874	1.00	56.95
ATOM	767	N	THR	A	99	36.108	31.973	53.125	1.00	66.03
ATOM	768	CA	THR	A	99	34.843	32.675	53.356	1.00	65.74
ATOM	769	C	THR	A	99	33.954	32.571	52.146	1.00	64.45
ATOM	770	O	THR	A	99	32.977	33.310	52.020	1.00	62.84
ATOM	771	CB	THR	A	99	35.055	34.172	53.593	1.00	68.70
ATOM	772	OG1	THR	A	99	35.740	34.734	52.464	1.00	71.44
ATOM	773	CG2	THR	A	99	35.857	34.408	54.848	1.00	67.00
ATOM	774	N	GLU	A	100	34.308	31.659	51.252	1.00	65.03
ATOM	775	CA	GLU	A	100	33.556	31.464	50.024	1.00	64.05
ATOM	776	C	GLU	A	100	32.689	30.214	50.018	1.00	60.71
ATOM	777	O	GLU	A	100	32.951	29.247	50.737	1.00	59.13
ATOM	778	CB	GLU	A	100	34.516	31.388	48.836	1.00	68.40
ATOM	779	CG	GLU	A	100	35.344	32.636	48.608	1.00	77.10
ATOM	780	CD	GLU	A	100	36.338	32.464	47.475	1.00	82.30
ATOM	781	OE1	GLU	A	100	35.904	32.110	46.356	1.00	86.23
ATOM	782	OE2	GLU	A	100	37.551	32.682	47.699	1.00	86.04
ATOM	783	N	ASN	A	101	31.641	30.256	49.207	1.00	57.14
ATOM	784	CA	ASN	A	101	30.780	29.108	49.043	1.00	54.42
ATOM	785	C	ASN	A	101	31.511	28.339	47.986	1.00	52.96
ATOM	786	O	ASN	A	101	31.884	28.910	46.961	1.00	53.64
ATOM	787	CB	ASN	A	101	29.418	29.511	48.519	1.00	52.86
ATOM	788	CG	ASN	A	101	28.520	29.981	49.608	1.00	54.21
ATOM	789	OD1	ASN	A	101	28.836	29.831	50.791	1.00	53.75
ATOM	790	ND2	ASN	A	101	27.382	30.543	49.234	1.00	52.78
ATOM	791	N	THR	A	102	31.734	27.054	48.229	1.00	51.52
ATOM	792	CA	THR	A	102	32.453	26.237	47.265	1.00	48.85
ATOM	793	C	THR	A	102	31.831	24.854	47.079	1.00	47.32
ATOM	794	O	THR	A	102	30.968	24.426	47.846	1.00	45.08
ATOM	795	CB	THR	A	102	33.917	26.035	47.697	1.00	48.20
ATOM	796	OG1	THR	A	102	33.994	24.923	48.598	1.00	53.05
ATOM	797	CG2	THR	A	102	34.447	27.274	48.403	1.00	43.19
ATOM	798	N	LEU	A	103	32.283	24.177	46.031	1.00	46.15
ATOM	799	CA	LEU	A	103	31.863	22.818	45.717	1.00	44.10
ATOM	800	C	LEU	A	103	33.089	22.126	45.156	1.00	43.94
ATOM	801	O	LEU	A	103	33.440	22.336	43.995	1.00	44.70
ATOM	802	CB	LEU	A	103	30.771	22.774	44.651	1.00	41.36
ATOM	803	CG	LEU	A	103	30.526	21.330	44.185	1.00	39.95
ATOM	804	CD1	LEU	A	103	29.868	20.546	45.314	1.00	39.47

ATOM	805	CD2	LEU	A	103	29.666	21.291	42.934	1.00	36.48
ATOM	806	N	GLN	A	104	33.751	21.314	45.972	1.00	42.50
ATOM	807	CA	GLN	A	104	34.934	20.612	45.490	1.00	39.96
ATOM	808	C	GLN	A	104	34.574	19.211	45.037	1.00	34.42
ATOM	809	O	GLN	A	104	33.970	18.448	45.796	1.00	33.07
ATOM	810	CB	GLN	A	104	36.002	20.525	46.582	1.00	43.05
ATOM	811	CG	GLN	A	104	37.389	20.969	46.133	1.00	46.85
ATOM	812	CD	GLN	A	104	38.422	20.855	47.244	1.00	54.06
ATOM	813	OE1	GLN	A	104	39.438	21.552	47.230	1.00	58.89
ATOM	814	NE2	GLN	A	104	38.172	19.967	48.208	1.00	53.32
ATOM	815	N	LEU	A	105	34.940	18.883	43.803	1.00	26.35
ATOM	816	CA	LEU	A	105	34.676	17.553	43.287	1.00	25.33
ATOM	817	C	LEU	A	105	35.857	16.598	43.552	1.00	22.77
ATOM	818	O	LEU	A	105	36.959	17.027	43.886	1.00	17.99
ATOM	819	CB	LEU	A	105	34.368	17.607	41.793	1.00	30.03
ATOM	820	CG	LEU	A	105	33.033	18.242	41.387	1.00	32.19
ATOM	821	CD1	LEU	A	105	32.821	18.072	39.885	1.00	25.23
ATOM	822	CD2	LEU	A	105	31.902	17.577	42.162	1.00	33.32
ATOM	823	N	ALA	A	106	35.594	15.301	43.419	1.00	20.12
ATOM	824	CA	ALA	A	106	36.581	14.260	43.657	1.00	18.07
ATOM	825	C	ALA	A	106	36.337	13.114	42.669	1.00	19.01
ATOM	826	O	ALA	A	106	35.393	12.317	42.820	1.00	16.81
ATOM	827	CB	ALA	A	106	36.462	13.751	45.102	1.00	20.26
ATOM	828	N	ILE	A	107	37.194	13.028	41.659	1.00	17.42
ATOM	829	CA	ILE	A	107	37.038	11.998	40.653	1.00	17.86
ATOM	830	C	ILE	A	107	37.446	10.625	41.174	1.00	20.34
ATOM	831	O	ILE	A	107	38.394	10.488	41.953	1.00	22.64
ATOM	832	CB	ILE	A	107	37.837	12.348	39.356	1.00	15.65
ATOM	833	CG1	ILE	A	107	37.139	13.468	38.592	1.00	12.38
ATOM	834	CG2	ILE	A	107	37.869	11.173	38.416	1.00	13.06
ATOM	835	CD1	ILE	A	107	36.987	14.721	39.361	1.00	15.07
ATOM	836	N	ILE	A	108	36.703	9.612	40.743	1.00	20.54
ATOM	837	CA	ILE	A	108	36.969	8.237	41.131	1.00	21.05
ATOM	838	C	ILE	A	108	36.769	7.354	39.902	1.00	21.14
ATOM	839	O	ILE	A	108	35.745	7.444	39.206	1.00	19.05
ATOM	840	CB	ILE	A	108	35.984	7.768	42.253	1.00	22.30
ATOM	841	CG1	ILE	A	108	36.136	8.658	43.475	1.00	19.50
ATOM	842	CG2	ILE	A	108	36.251	6.312	42.654	1.00	19.99
ATOM	843	CD1	ILE	A	108	34.972	8.601	44.375	1.00	21.08
ATOM	844	N	SER	A	109	37.757	6.508	39.640	1.00	19.43
ATOM	845	CA	SER	A	109	37.681	5.580	38.524	1.00	19.54
ATOM	846	C	SER	A	109	37.241	4.255	39.138	1.00	20.47
ATOM	847	O	SER	A	109	37.789	3.828	40.153	1.00	21.17
ATOM	848	CB	SER	A	109	39.045	5.415	37.864	1.00	16.07
ATOM	849	OG	SER	A	109	39.616	6.672	37.527	1.00	23.90
ATOM	850	N	ARG	A	110	36.228	3.633	38.549	1.00	19.39
ATOM	851	CA	ARG	A	110	35.729	2.361	39.032	1.00	18.38
ATOM	852	C	ARG	A	110	35.797	1.342	37.877	1.00	23.34
ATOM	853	O	ARG	A	110	35.029	1.396	36.891	1.00	24.04
ATOM	854	CB	ARG	A	110	34.299	2.515	39.550	1.00	12.73
ATOM	855	CG	ARG	A	110	33.480	1.260	39.375	1.00	20.88
ATOM	856	CD	ARG	A	110	32.161	1.284	40.119	1.00	23.68
ATOM	857	NE	ARG	A	110	32.383	1.207	41.557	1.00	25.61
ATOM	858	CZ	ARG	A	110	31.729	0.400	42.379	1.00	19.09
ATOM	859	NH1	ARG	A	110	30.796	-0.416	41.909	1.00	18.93
ATOM	860	NH2	ARG	A	110	32.022	0.415	43.670	1.00	15.67
ATOM	861	N	ILE	A	111	36.734	0.410	38.012	1.00	23.25
ATOM	862	CA	ILE	A	111	36.956	-0.620	37.012	1.00	21.17
ATOM	863	C	ILE	A	111	36.703	-2.030	37.543	1.00	22.10
ATOM	864	O	ILE	A	111	36.925	-2.324	38.718	1.00	21.31
ATOM	865	CB	ILE	A	111	38.369	-0.496	36.501	1.00	19.59
ATOM	866	CG1	ILE	A	111	39.351	-0.863	37.601	1.00	17.86

ATOM	867	CG2	ILE	A	111	38.613	0.941	36.079	1.00	17.22
ATOM	868	CD1	ILE	A	111	40.771	-0.488	37.298	1.00	25.19
ATOM	869	N	LYS	A	112	36.216	-2.904	36.672	1.00	23.29
ATOM	870	CA	LYS	A	112	35.924	-4.266	37.082	1.00	22.95
ATOM	871	C	LYS	A	112	37.214	-5.005	37.372	1.00	25.54
ATOM	872	O	LYS	A	112	38.256	-4.726	36.773	1.00	28.63
ATOM	873	CB	LYS	A	112	35.174	-5.018	35.991	1.00	18.21
ATOM	874	CG	LYS	A	112	34.131	-4.218	35.253	1.00	20.06
ATOM	875	CD	LYS	A	112	33.256	-5.168	34.449	1.00	26.17
ATOM	876	CE	LYS	A	112	32.597	-4.472	33.267	1.00	34.36
ATOM	877	NZ	LYS	A	112	32.030	-5.406	32.234	1.00	32.37
ATOM	878	N	LEU	A	113	37.127	-5.950	38.298	1.00	25.77
ATOM	879	CA	LEU	A	113	38.247	-6.784	38.679	1.00	25.58
ATOM	880	C	LEU	A	113	37.702	-8.189	38.677	1.00	25.20
ATOM	881	O	LEU	A	113	36.768	-8.483	39.412	1.00	28.38
ATOM	882	CB	LEU	A	113	38.736	-6.448	40.090	1.00	27.80
ATOM	883	CG	LEU	A	113	39.636	-7.532	40.686	1.00	28.14
ATOM	884	CD1	LEU	A	113	40.761	-7.769	39.712	1.00	36.49
ATOM	885	CD2	LEU	A	113	40.207	-7.136	42.020	1.00	28.81
ATOM	886	N	TYR	A	114	38.253	-9.059	37.845	1.00	25.27
ATOM	887	CA	TYR	A	114	37.765	-10.428	37.837	1.00	27.11
ATOM	888	C	TYR	A	114	38.748	-11.349	38.527	1.00	28.64
ATOM	889	O	TYR	A	114	39.957	-11.244	38.324	1.00	27.67
ATOM	890	CB	TYR	A	114	37.525	-10.932	36.421	1.00	23.96
ATOM	891	CG	TYR	A	114	36.488	-10.157	35.670	1.00	20.48
ATOM	892	CD1	TYR	A	114	35.133	-10.350	35.910	1.00	18.88
ATOM	893	CD2	TYR	A	114	36.861	-9.245	34.695	1.00	18.22
ATOM	894	CE1	TYR	A	114	34.180	-9.652	35.182	1.00	18.25
ATOM	895	CE2	TYR	A	114	35.921	-8.549	33.969	1.00	17.12
ATOM	896	CZ	TYR	A	114	34.589	-8.761	34.209	1.00	18.15
ATOM	897	OH	TYR	A	114	33.686	-8.123	33.409	1.00	23.99
ATOM	898	N	TYR	A	115	38.216	-12.235	39.359	1.00	28.83
ATOM	899	CA	TYR	A	115	39.034	-13.193	40.071	1.00	32.03
ATOM	900	C	TYR	A	115	39.025	-14.443	39.189	1.00	36.19
ATOM	901	O	TYR	A	115	37.965	-15.060	38.973	1.00	38.77
ATOM	902	CB	TYR	A	115	38.408	-13.489	41.427	1.00	30.69
ATOM	903	CG	TYR	A	115	39.186	-14.489	42.227	1.00	31.48
ATOM	904	CD1	TYR	A	115	40.374	-14.136	42.849	1.00	35.48
ATOM	905	CD2	TYR	A	115	38.757	-15.798	42.332	1.00	31.37
ATOM	906	CE1	TYR	A	115	41.119	-15.073	43.562	1.00	36.59
ATOM	907	CE2	TYR	A	115	39.492	-16.740	43.033	1.00	35.91
ATOM	908	CZ	TYR	A	115	40.669	-16.378	43.645	1.00	35.34
ATOM	909	OH	TYR	A	115	41.398	-17.332	44.320	1.00	38.60
ATOM	910	N	ARG	A	116	40.188	-14.824	38.670	1.00	34.91
ATOM	911	CA	ARG	A	116	40.215	-15.984	37.796	1.00	37.57
ATOM	912	C	ARG	A	116	40.890	-17.225	38.348	1.00	39.55
ATOM	913	O	ARG	A	116	42.120	-17.355	38.333	1.00	39.16
ATOM	914	CB	ARG	A	116	40.833	-15.610	36.446	1.00	36.23
ATOM	915	CG	ARG	A	116	40.601	-16.663	35.369	1.00	31.81
ATOM	916	CD	ARG	A	116	40.989	-16.122	34.043	1.00	29.98
ATOM	917	NE	ARG	A	116	40.161	-14.985	33.685	1.00	32.16
ATOM	918	CZ	ARG	A	116	40.429	-14.170	32.672	1.00	36.97
ATOM	919	NH1	ARG	A	116	41.510	-14.375	31.932	1.00	38.54
ATOM	920	NH2	ARG	A	116	39.612	-13.167	32.383	1.00	37.69
ATOM	921	N	PRO	A	117	40.079	-18.172	38.825	1.00	42.30
ATOM	922	CA	PRO	A	117	40.562	-19.433	39.393	1.00	46.21
ATOM	923	C	PRO	A	117	41.656	-19.996	38.492	1.00	48.68
ATOM	924	O	PRO	A	117	41.428	-20.240	37.312	1.00	47.83
ATOM	925	CB	PRO	A	117	39.310	-20.300	39.412	1.00	47.42
ATOM	926	CG	PRO	A	117	38.221	-19.292	39.638	1.00	47.92
ATOM	927	CD	PRO	A	117	38.610	-18.155	38.726	1.00	42.46
ATOM	928	N	ALA	A	118	42.840	-20.190	39.064	1.00	52.70

ATOM	929	CA	ALA	A	118	44.015	-20.680	38.342	1.00	56.14
ATOM	930	C	ALA	A	118	43.809	-21.856	37.387	1.00	56.81
ATOM	931	O	ALA	A	118	44.546	-21.998	36.406	1.00	58.62
ATOM	932	CB	ALA	A	118	45.129	-21.006	39.336	1.00	55.57
ATOM	933	N	LYS	A	119	42.831	-22.704	37.665	1.00	56.65
ATOM	934	CA	LYS	A	119	42.592	-23.834	36.784	1.00	59.05
ATOM	935	C	LYS	A	119	41.209	-23.754	36.178	1.00	60.14
ATOM	936	O	LYS	A	119	40.198	-23.878	36.877	1.00	61.89
ATOM	937	CB	LYS	A	119	42.768	-25.152	37.541	1.00	59.33
ATOM	938	CG	LYS	A	119	44.209	-25.443	37.884	1.00	59.25
ATOM	939	CD	LYS	A	119	44.349	-26.623	38.810	1.00	61.91
ATOM	940	CE	LYS	A	119	45.782	-26.702	39.313	1.00	67.78
ATOM	941	NZ	LYS	A	119	46.010	-27.810	40.287	1.00	75.27
ATOM	942	N	LEU	A	120	41.178	-23.521	34.871	1.00	58.33
ATOM	943	CA	LEU	A	120	39.933	-23.424	34.132	1.00	58.20
ATOM	944	C	LEU	A	120	40.154	-24.107	32.794	1.00	59.61
ATOM	945	O	LEU	A	120	41.227	-23.991	32.199	1.00	61.08
ATOM	946	CB	LEU	A	120	39.553	-21.960	33.912	1.00	55.15
ATOM	947	CG	LEU	A	120	39.222	-21.109	35.140	1.00	52.79
ATOM	948	CD1	LEU	A	120	39.127	-19.655	34.709	1.00	50.32
ATOM	949	CD2	LEU	A	120	37.925	-21.580	35.795	1.00	48.11
ATOM	950	N	ALA	A	121	39.143	-24.820	32.317	1.00	59.82
ATOM	951	CA	ALA	A	121	39.262	-25.526	31.055	1.00	59.85
ATOM	952	C	ALA	A	121	39.258	-24.558	29.882	1.00	61.06
ATOM	953	O	ALA	A	121	40.311	-24.140	29.396	1.00	62.25
ATOM	954	CB	ALA	A	121	38.127	-26.521	30.919	1.00	59.76
ATOM	955	N	LEU	A	122	38.060	-24.200	29.441	1.00	61.48
ATOM	956	CA	LEU	A	122	37.874	-23.297	28.317	1.00	61.65
ATOM	957	C	LEU	A	122	38.755	-22.060	28.418	1.00	60.98
ATOM	958	O	LEU	A	122	38.579	-21.241	29.314	1.00	62.03
ATOM	959	CB	LEU	A	122	36.412	-22.860	28.250	1.00	63.03
ATOM	960	CG	LEU	A	122	35.872	-22.415	26.892	1.00	66.99
ATOM	961	CD1	LEU	A	122	34.976	-23.527	26.343	1.00	68.51
ATOM	962	CD2	LEU	A	122	35.077	-21.123	27.032	1.00	68.56
ATOM	963	N	PRO	A	123	39.726	-21.913	27.507	1.00	60.63
ATOM	964	CA	PRO	A	123	40.605	-20.736	27.542	1.00	59.76
ATOM	965	C	PRO	A	123	39.844	-19.437	27.191	1.00	57.68
ATOM	966	O	PRO	A	123	39.071	-19.397	26.232	1.00	55.55
ATOM	967	CB	PRO	A	123	41.698	-21.089	26.530	1.00	59.73
ATOM	968	CG	PRO	A	123	40.993	-22.007	25.570	1.00	61.78
ATOM	969	CD	PRO	A	123	40.173	-22.879	26.489	1.00	60.04
ATOM	970	N	PRO	A	124	40.070	-18.363	27.972	1.00	56.25
ATOM	971	CA	PRO	A	124	39.450	-17.044	27.822	1.00	55.06
ATOM	972	C	PRO	A	124	39.296	-16.504	26.415	1.00	55.85
ATOM	973	O	PRO	A	124	38.256	-15.957	26.077	1.00	55.15
ATOM	974	CB	PRO	A	124	40.322	-16.143	28.693	1.00	53.42
ATOM	975	CG	PRO	A	124	41.618	-16.857	28.744	1.00	55.63
ATOM	976	CD	PRO	A	124	41.189	-18.280	28.921	1.00	55.53
ATOM	977	N	ASP	A	125	40.314	-16.640	25.583	1.00	59.32
ATOM	978	CA	ASP	A	125	40.183	-16.125	24.230	1.00	64.35
ATOM	979	C	ASP	A	125	39.142	-16.906	23.441	1.00	65.11
ATOM	980	O	ASP	A	125	38.681	-16.452	22.402	1.00	67.02
ATOM	981	CB	ASP	A	125	41.534	-16.142	23.510	1.00	68.50
ATOM	982	CG	ASP	A	125	42.202	-17.496	23.554	1.00	74.96
ATOM	983	OD1	ASP	A	125	42.027	-18.209	24.573	1.00	76.01
ATOM	984	OD2	ASP	A	125	42.914	-17.837	22.578	1.00	77.54
ATOM	985	N	GLN	A	126	38.749	-18.068	23.947	1.00	65.67
ATOM	986	CA	GLN	A	126	37.754	-18.886	23.262	1.00	66.56
ATOM	987	C	GLN	A	126	36.408	-18.910	23.991	1.00	65.48
ATOM	988	O	GLN	A	126	35.770	-19.954	24.072	1.00	65.54
ATOM	989	CB	GLN	A	126	38.280	-20.320	23.117	1.00	70.47
ATOM	990	CG	GLN	A	126	37.335	-21.279	22.379	1.00	77.27

ATOM	991	CD	GLN	A	126	37.711	-22.745	22.559	1.00	78.70
ATOM	992	OE1	GLN	A	126	36.896	-23.642	22.323	1.00	79.06
ATOM	993	NE2	GLN	A	126	38.948	-22.993	22.972	1.00	79.40
ATOM	994	N	ALA	A	127	35.958	-17.776	24.519	1.00	64.06
ATOM	995	CA	ALA	A	127	34.687	-17.783	25.240	1.00	62.05
ATOM	996	C	ALA	A	127	33.613	-16.901	24.617	1.00	62.80
ATOM	997	O	ALA	A	127	32.435	-17.246	24.638	1.00	61.41
ATOM	998	CB	ALA	A	127	34.907	-17.398	26.703	1.00	54.86
ATOM	999	N	ALA	A	128	34.006	-15.772	24.044	1.00	64.68
ATOM	1000	CA	ALA	A	128	33.028	-14.877	23.444	1.00	66.84
ATOM	1001	C	ALA	A	128	32.268	-15.519	22.289	1.00	70.15
ATOM	1002	O	ALA	A	128	31.469	-14.857	21.630	1.00	72.61
ATOM	1003	CB	ALA	A	128	33.706	-13.613	22.973	1.00	66.19
ATOM	1004	N	GLU	A	129	32.513	-16.804	22.046	1.00	72.09
ATOM	1005	CA	GLU	A	129	31.852	-17.534	20.965	1.00	72.04
ATOM	1006	C	GLU	A	129	30.797	-18.471	21.513	1.00	70.89
ATOM	1007	O	GLU	A	129	29.839	-18.815	20.819	1.00	71.62
ATOM	1008	CB	GLU	A	129	32.858	-18.377	20.202	1.00	75.19
ATOM	1009	CG	GLU	A	129	33.524	-19.414	21.091	1.00	82.57
ATOM	1010	CD	GLU	A	129	34.198	-20.521	20.311	1.00	84.86
ATOM	1011	OE1	GLU	A	129	34.862	-20.205	19.298	1.00	84.87
ATOM	1012	OE2	GLU	A	129	34.072	-21.701	20.721	1.00	83.56
ATOM	1013	N	LYS	A	130	30.998	-18.903	22.754	1.00	69.10
ATOM	1014	CA	LYS	A	130	30.079	-19.820	23.419	1.00	67.53
ATOM	1015	C	LYS	A	130	28.793	-19.089	23.786	1.00	65.36
ATOM	1016	O	LYS	A	130	27.902	-19.658	24.401	1.00	62.57
ATOM	1017	CB	LYS	A	130	30.726	-20.376	24.691	1.00	69.15
ATOM	1018	CG	LYS	A	130	32.196	-20.771	24.545	1.00	70.77
ATOM	1019	CD	LYS	A	130	32.381	-22.083	23.801	1.00	74.07
ATOM	1020	CE	LYS	A	130	33.859	-22.365	23.555	1.00	76.23
ATOM	1021	NZ	LYS	A	130	34.111	-23.660	22.855	1.00	78.14
ATOM	1022	N	LEU	A	131	28.710	-17.822	23.400	1.00	66.08
ATOM	1023	CA	LEU	A	131	27.548	-16.999	23.704	1.00	67.30
ATOM	1024	C	LEU	A	131	26.313	-17.350	22.891	1.00	69.49
ATOM	1025	O	LEU	A	131	26.201	-16.975	21.720	1.00	71.11
ATOM	1026	CB	LEU	A	131	27.884	-15.523	23.488	1.00	65.82
ATOM	1027	CG	LEU	A	131	26.769	-14.541	23.853	1.00	62.91
ATOM	1028	CD1	LEU	A	131	26.299	-14.786	25.273	1.00	62.07
ATOM	1029	CD2	LEU	A	131	27.290	-13.133	23.707	1.00	64.30
ATOM	1030	N	ARG	A	132	25.377	-18.060	23.512	1.00	71.48
ATOM	1031	CA	ARG	A	132	24.148	-18.438	22.826	1.00	73.65
ATOM	1032	C	ARG	A	132	23.019	-17.475	23.155	1.00	73.84
ATOM	1033	O	ARG	A	132	23.177	-16.573	23.978	1.00	72.59
ATOM	1034	CB	ARG	A	132	23.742	-19.868	23.197	1.00	74.74
ATOM	1035	CG	ARG	A	132	24.570	-20.924	22.499	1.00	77.52
ATOM	1036	CD	ARG	A	132	24.027	-22.325	22.692	1.00	81.67
ATOM	1037	NE	ARG	A	132	24.255	-22.831	24.040	1.00	83.89
ATOM	1038	CZ	ARG	A	132	23.931	-24.057	24.441	1.00	86.35
ATOM	1039	NH1	ARG	A	132	23.361	-24.910	23.595	1.00	86.42
ATOM	1040	NH2	ARG	A	132	24.179	-24.430	25.691	1.00	87.07
ATOM	1041	N	PHE	A	133	21.877	-17.668	22.503	1.00	74.68
ATOM	1042	CA	PHE	A	133	20.731	-16.808	22.739	1.00	75.18
ATOM	1043	C	PHE	A	133	19.392	-17.523	22.897	1.00	77.36
ATOM	1044	O	PHE	A	133	19.308	-18.755	22.905	1.00	77.32
ATOM	1045	CB	PHE	A	133	20.628	-15.771	21.625	1.00	71.97
ATOM	1046	CG	PHE	A	133	21.821	-14.882	21.529	1.00	68.01
ATOM	1047	CD1	PHE	A	133	23.014	-15.359	21.016	1.00	66.41
ATOM	1048	CD2	PHE	A	133	21.761	-13.572	21.987	1.00	69.00
ATOM	1049	CE1	PHE	A	133	24.137	-14.543	20.960	1.00	70.11
ATOM	1050	CE2	PHE	A	133	22.873	-12.740	21.940	1.00	67.80
ATOM	1051	CZ	PHE	A	133	24.067	-13.226	21.425	1.00	69.98
ATOM	1052	N	ARG	A	134	18.347	-16.710	23.025	1.00	79.85

ATOM	1053	CA	ARG	A	134	16.973	-17.167	23.208	1.00	80.82
ATOM	1054	C	ARG	A	134	16.091	-15.913	23.155	1.00	82.58
ATOM	1055	O	ARG	A	134	16.156	-15.053	24.035	1.00	83.68
ATOM	1056	CB	ARG	A	134	16.854	-17.867	24.558	1.00	77.74
ATOM	1057	CG	ARG	A	134	15.454	-18.092	25.043	1.00	78.94
ATOM	1058	CD	ARG	A	134	15.493	-18.494	26.511	1.00	81.60
ATOM	1059	NE	ARG	A	134	16.131	-19.794	26.715	1.00	81.07
ATOM	1060	CZ	ARG	A	134	16.517	-20.262	27.899	1.00	80.69
ATOM	1061	NH1	ARG	A	134	16.341	-19.535	28.997	1.00	79.39
ATOM	1062	NH2	ARG	A	134	17.069	-21.465	27.985	1.00	79.88
ATOM	1063	N	ARG	A	135	15.275	-15.811	22.111	1.00	85.00
ATOM	1064	CA	ARG	A	135	14.419	-14.641	21.921	1.00	87.20
ATOM	1065	C	ARG	A	135	12.928	-14.765	22.255	1.00	89.04
ATOM	1066	O	ARG	A	135	12.450	-15.799	22.750	1.00	90.19
ATOM	1067	CB	ARG	A	135	14.562	-14.145	20.482	1.00	84.30
ATOM	1068	CG	ARG	A	135	14.740	-15.259	19.486	1.00	85.11
ATOM	1069	CD	ARG	A	135	14.632	-14.778	18.055	1.00	89.42
ATOM	1070	NE	ARG	A	135	15.446	-13.596	17.784	1.00	93.66
ATOM	1071	CZ	ARG	A	135	15.054	-12.347	18.021	1.00	96.36
ATOM	1072	NH1	ARG	A	135	13.849	-12.111	18.533	1.00	96.00
ATOM	1073	NH2	ARG	A	135	15.864	-11.332	17.740	1.00	95.63
ATOM	1074	N	SER	A	136	12.218	-13.671	21.976	1.00	88.55
ATOM	1075	CA	SER	A	136	10.780	-13.531	22.193	1.00	87.58
ATOM	1076	C	SER	A	136	10.399	-12.147	21.667	1.00	87.93
ATOM	1077	O	SER	A	136	11.270	-11.372	21.274	1.00	88.19
ATOM	1078	CB	SER	A	136	10.434	-13.625	23.689	1.00	86.32
ATOM	1079	OG	SER	A	136	10.597	-14.939	24.200	1.00	82.26
ATOM	1080	N	ALA	A	137	9.104	-11.841	21.650	1.00	88.81
ATOM	1081	CA	ALA	A	137	8.622	-10.535	21.188	1.00	88.96
ATOM	1082	C	ALA	A	137	8.836	-9.559	22.344	1.00	88.72
ATOM	1083	O	ALA	A	137	8.158	-8.532	22.466	1.00	88.88
ATOM	1084	CB	ALA	A	137	7.132	-10.618	20.833	1.00	89.49
ATOM	1085	N	ASN	A	138	9.804	-9.902	23.186	1.00	86.68
ATOM	1086	CA	ASN	A	138	10.119	-9.120	24.361	1.00	83.32
ATOM	1087	C	ASN	A	138	11.536	-9.402	24.866	1.00	82.50
ATOM	1088	O	ASN	A	138	12.385	-8.513	24.860	1.00	81.31
ATOM	1089	CB	ASN	A	138	9.092	-9.446	25.442	1.00	81.78
ATOM	1090	CG	ASN	A	138	8.758	-10.927	25.489	1.00	81.47
ATOM	1091	OD1	ASN	A	138	9.589	-11.750	25.860	1.00	81.02
ATOM	1092	ND2	ASN	A	138	7.539	-11.272	25.097	1.00	81.72
ATOM	1093	N	SER	A	139	11.791	-10.640	25.290	1.00	80.69
ATOM	1094	CA	SER	A	139	13.103	-11.023	25.820	1.00	77.29
ATOM	1095	C	SER	A	139	14.087	-11.617	24.824	1.00	75.03
ATOM	1096	O	SER	A	139	13.711	-12.288	23.867	1.00	75.35
ATOM	1097	CB	SER	A	139	12.944	-12.004	26.982	1.00	76.93
ATOM	1098	OG	SER	A	139	12.345	-11.383	28.102	1.00	81.31
ATOM	1099	N	LEU	A	140	15.363	-11.361	25.089	1.00	72.76
ATOM	1100	CA	LEU	A	140	16.475	-11.836	24.277	1.00	68.46
ATOM	1101	C	LEU	A	140	17.520	-12.211	25.315	1.00	65.89
ATOM	1102	O	LEU	A	140	18.547	-11.554	25.448	1.00	64.81
ATOM	1103	CB	LEU	A	140	17.002	-10.704	23.390	1.00	69.73
ATOM	1104	CG	LEU	A	140	17.880	-11.083	22.191	1.00	70.10
ATOM	1105	CD1	LEU	A	140	18.434	-9.831	21.537	1.00	69.48
ATOM	1106	CD2	LEU	A	140	19.014	-11.970	22.644	1.00	70.43
ATOM	1107	N	THR	A	141	17.224	-13.268	26.059	1.00	63.01
ATOM	1108	CA	THR	A	141	18.080	-13.761	27.133	1.00	60.38
ATOM	1109	C	THR	A	141	19.461	-14.261	26.723	1.00	59.65
ATOM	1110	O	THR	A	141	19.580	-15.323	26.108	1.00	59.36
ATOM	1111	CB	THR	A	141	17.397	-14.910	27.862	1.00	60.64
ATOM	1112	OG1	THR	A	141	15.994	-14.637	27.966	1.00	61.86
ATOM	1113	CG2	THR	A	141	17.994	-15.082	29.250	1.00	62.11
ATOM	1114	N	LEU	A	142	20.501	-13.508	27.083	1.00	57.34

ATOM	1115	CA	LEU	A	142	21.878	-13.894	26.779	1.00	53.93
ATOM	1116	C	LEU	A	142	22.176	-15.099	27.662	1.00	55.61
ATOM	1117	O	LEU	A	142	21.517	-15.284	28.683	1.00	58.01
ATOM	1118	CB	LEU	A	142	22.836	-12.771	27.144	1.00	49.82
ATOM	1119	CG	LEU	A	142	22.793	-11.425	26.427	1.00	49.85
ATOM	1120	CD1	LEU	A	142	23.911	-11.329	25.398	1.00	47.72
ATOM	1121	CD2	LEU	A	142	21.434	-11.235	25.809	1.00	49.28
ATOM	1122	N	ILE	A	143	23.154	-15.921	27.289	1.00	54.89
ATOM	1123	CA	ILE	A	143	23.474	-17.087	28.105	1.00	54.84
ATOM	1124	C	ILE	A	143	24.905	-17.594	27.951	1.00	55.02
ATOM	1125	O	ILE	A	143	25.228	-18.344	27.039	1.00	56.50
ATOM	1126	CB	ILE	A	143	22.470	-18.228	27.835	1.00	54.71
ATOM	1127	CG1	ILE	A	143	22.990	-19.530	28.442	1.00	55.42
ATOM	1128	CG2	ILE	A	143	22.198	-18.338	26.354	1.00	53.50
ATOM	1129	CD1	ILE	A	143	21.993	-20.657	28.385	1.00	61.97
ATOM	1130	N	ASN	A	144	25.748	-17.178	28.886	1.00	56.03
ATOM	1131	CA	ASN	A	144	27.164	-17.524	28.919	1.00	54.33
ATOM	1132	C	ASN	A	144	27.410	-18.759	29.772	1.00	52.57
ATOM	1133	O	ASN	A	144	27.285	-18.720	30.989	1.00	52.42
ATOM	1134	CB	ASN	A	144	27.939	-16.320	29.461	1.00	57.49
ATOM	1135	CG	ASN	A	144	29.362	-16.649	29.828	1.00	61.07
ATOM	1136	OD1	ASN	A	144	29.960	-17.590	29.297	1.00	64.29
ATOM	1137	ND2	ASN	A	144	29.929	-15.855	30.729	1.00	61.19
ATOM	1138	N	PRO	A	145	27.762	-19.879	29.131	1.00	51.83
ATOM	1139	CA	PRO	A	145	28.034	-21.163	29.778	1.00	50.87
ATOM	1140	C	PRO	A	145	29.482	-21.327	30.214	1.00	50.19
ATOM	1141	O	PRO	A	145	29.842	-22.325	30.844	1.00	50.43
ATOM	1142	CB	PRO	A	145	27.664	-22.155	28.692	1.00	52.71
ATOM	1143	CG	PRO	A	145	28.232	-21.472	27.476	1.00	52.66
ATOM	1144	CD	PRO	A	145	27.745	-20.036	27.666	1.00	53.23
ATOM	1145	N	THR	A	146	30.311	-20.352	29.865	1.00	48.88
ATOM	1146	CA	THR	A	146	31.724	-20.386	30.215	1.00	47.03
ATOM	1147	C	THR	A	146	31.963	-19.892	31.641	1.00	46.92
ATOM	1148	O	THR	A	146	31.053	-19.392	32.307	1.00	47.76
ATOM	1149	CB	THR	A	146	32.515	-19.498	29.294	1.00	46.29
ATOM	1150	OG1	THR	A	146	32.327	-18.136	29.685	1.00	44.89
ATOM	1151	CG2	THR	A	146	32.021	-19.664	27.876	1.00	50.73
ATOM	1152	N	PRO	A	147	33.198	-20.037	32.134	1.00	44.73
ATOM	1153	CA	PRO	A	147	33.467	-19.572	33.494	1.00	42.77
ATOM	1154	C	PRO	A	147	33.907	-18.101	33.572	1.00	41.73
ATOM	1155	O	PRO	A	147	34.305	-17.628	34.635	1.00	41.78
ATOM	1156	CB	PRO	A	147	34.547	-20.535	33.962	1.00	42.94
ATOM	1157	CG	PRO	A	147	35.314	-20.787	32.710	1.00	40.10
ATOM	1158	CD	PRO	A	147	34.234	-20.986	31.693	1.00	42.45
ATOM	1159	N	TYR	A	148	33.826	-17.378	32.458	1.00	38.80
ATOM	1160	CA	TYR	A	148	34.226	-15.971	32.448	1.00	37.98
ATOM	1161	C	TYR	A	148	33.065	-15.001	32.311	1.00	36.58
ATOM	1162	O	TYR	A	148	31.988	-15.358	31.843	1.00	35.12
ATOM	1163	CB	TYR	A	148	35.213	-15.686	31.312	1.00	37.50
ATOM	1164	CG	TYR	A	148	36.341	-16.671	31.237	1.00	37.02
ATOM	1165	CD1	TYR	A	148	36.113	-17.989	30.831	1.00	35.97
ATOM	1166	CD2	TYR	A	148	37.628	-16.301	31.587	1.00	32.20
ATOM	1167	CE1	TYR	A	148	37.137	-18.904	30.778	1.00	33.98
ATOM	1168	CE2	TYR	A	148	38.660	-17.214	31.540	1.00	34.72
ATOM	1169	CZ	TYR	A	148	38.410	-18.516	31.133	1.00	35.09
ATOM	1170	OH	TYR	A	148	39.437	-19.432	31.086	1.00	34.68
ATOM	1171	N	TYR	A	149	33.308	-13.758	32.709	1.00	35.02
ATOM	1172	CA	TYR	A	149	32.293	-12.723	32.625	1.00	34.14
ATOM	1173	C	TYR	A	149	32.277	-12.096	31.240	1.00	32.33
ATOM	1174	O	TYR	A	149	33.210	-11.400	30.855	1.00	30.31
ATOM	1175	CB	TYR	A	149	32.553	-11.628	33.659	1.00	35.33
ATOM	1176	CG	TYR	A	149	31.804	-11.779	34.969	1.00	39.02

ATOM	1177	CD1	TYR	A	149	32.310	-12.560	36.005	1.00	40.49
ATOM	1178	CD2	TYR	A	149	30.583	-11.135	35.170	1.00	41.91
ATOM	1179	CE1	TYR	A	149	31.619	-12.695	37.214	1.00	43.63
ATOM	1180	CE2	TYR	A	149	29.884	-11.267	36.371	1.00	45.25
ATOM	1181	CZ	TYR	A	149	30.408	-12.047	37.389	1.00	44.89
ATOM	1182	OH	TYR	A	149	29.725	-12.178	38.579	1.00	45.99
ATOM	1183	N	LEU	A	150	31.208	-12.323	30.491	1.00	31.01
ATOM	1184	CA	LEU	A	150	31.133	-11.753	29.159	1.00	30.10
ATOM	1185	C	LEU	A	150	30.580	-10.339	29.211	1.00	31.22
ATOM	1186	O	LEU	A	150	29.460	-10.115	29.688	1.00	28.25
ATOM	1187	CB	LEU	A	150	30.241	-12.598	28.250	1.00	29.12
ATOM	1188	CG	LEU	A	150	30.463	-14.101	28.105	1.00	28.99
ATOM	1189	CD1	LEU	A	150	29.545	-14.580	26.989	1.00	27.49
ATOM	1190	CD2	LEU	A	150	31.922	-14.437	27.795	1.00	26.28
ATOM	1191	N	THR	A	151	31.368	-9.387	28.714	1.00	29.93
ATOM	1192	CA	THR	A	151	30.937	-8.001	28.694	1.00	30.13
ATOM	1193	C	THR	A	151	30.442	-7.756	27.281	1.00	32.08
ATOM	1194	O	THR	A	151	31.156	-7.199	26.449	1.00	34.65
ATOM	1195	CB	THR	A	151	32.113	-7.014	29.036	1.00	34.31
ATOM	1196	OG1	THR	A	151	32.520	-7.168	30.408	1.00	29.48
ATOM	1197	CG2	THR	A	151	31.690	-5.568	28.824	1.00	31.43
ATOM	1198	N	VAL	A	152	29.214	-8.198	27.015	1.00	33.34
ATOM	1199	CA	VAL	A	152	28.562	-8.064	25.707	1.00	32.90
ATOM	1200	C	VAL	A	152	28.265	-6.626	25.337	1.00	34.39
ATOM	1201	O	VAL	A	152	27.673	-5.902	26.110	1.00	38.94
ATOM	1202	CB	VAL	A	152	27.235	-8.837	25.694	1.00	33.52
ATOM	1203	CG1	VAL	A	152	26.454	-8.525	24.434	1.00	32.31
ATOM	1204	CG2	VAL	A	152	27.511	-10.331	25.811	1.00	34.77
ATOM	1205	N	THR	A	153	28.657	-6.215	24.144	1.00	37.62
ATOM	1206	CA	THR	A	153	28.413	-4.852	23.699	1.00	40.97
ATOM	1207	C	THR	A	153	28.163	-4.785	22.184	1.00	47.35
ATOM	1208	O	THR	A	153	28.517	-5.708	21.437	1.00	47.43
ATOM	1209	CB	THR	A	153	29.595	-3.975	24.054	1.00	39.42
ATOM	1210	OG1	THR	A	153	29.456	-2.691	23.437	1.00	36.76
ATOM	1211	CG2	THR	A	153	30.871	-4.631	23.588	1.00	43.57
ATOM	1212	N	GLU	A	154	27.567	-3.683	21.729	1.00	51.86
ATOM	1213	CA	GLU	A	154	27.242	-3.516	20.318	1.00	54.35
ATOM	1214	C	GLU	A	154	26.289	-4.645	19.912	1.00	57.20
ATOM	1215	O	GLU	A	154	26.269	-5.075	18.761	1.00	60.08
ATOM	1216	CB	GLU	A	154	28.512	-3.551	19.453	1.00	52.64
ATOM	1217	CG	GLU	A	154	29.397	-2.309	19.575	1.00	55.83
ATOM	1218	CD	GLU	A	154	30.316	-2.097	18.369	1.00	56.54
ATOM	1219	OE1	GLU	A	154	30.164	-2.831	17.374	1.00	60.23
ATOM	1220	OE2	GLU	A	154	31.180	-1.190	18.404	1.00	52.54
ATOM	1221	N	LEU	A	155	25.503	-5.122	20.873	1.00	59.21
ATOM	1222	CA	LEU	A	155	24.542	-6.200	20.644	1.00	61.51
ATOM	1223	C	LEU	A	155	23.313	-5.669	19.918	1.00	64.40
ATOM	1224	O	LEU	A	155	22.539	-4.906	20.492	1.00	64.64
ATOM	1225	CB	LEU	A	155	24.105	-6.807	21.980	1.00	59.41
ATOM	1226	CG	LEU	A	155	23.116	-7.975	21.968	1.00	58.08
ATOM	1227	CD1	LEU	A	155	23.843	-9.252	21.561	1.00	60.75
ATOM	1228	CD2	LEU	A	155	22.513	-8.153	23.345	1.00	56.52
ATOM	1229	N	ASN	A	156	23.132	-6.074	18.662	1.00	68.16
ATOM	1230	CA	ASN	A	156	21.979	-5.639	17.873	1.00	69.97
ATOM	1231	C	ASN	A	156	21.116	-6.838	17.517	1.00	71.65
ATOM	1232	O	ASN	A	156	21.628	-7.947	17.327	1.00	71.13
ATOM	1233	CB	ASN	A	156	22.443	-4.981	16.583	1.00	68.17
ATOM	1234	CG	ASN	A	156	23.717	-4.219	16.764	1.00	70.11
ATOM	1235	OD1	ASN	A	156	23.739	-3.160	17.394	1.00	70.02
ATOM	1236	ND2	ASN	A	156	24.806	-4.763	16.232	1.00	67.99
ATOM	1237	N	ALA	A	157	19.806	-6.618	17.442	1.00	72.63
ATOM	1238	CA	ALA	A	157	18.893	-7.684	17.060	1.00	74.68

ATOM	1239	C	ALA	A	157	18.907	-7.623	15.539	1.00	77.08
ATOM	1240	O	ALA	A	157	17.922	-7.942	14.870	1.00	77.38
ATOM	1241	CB	ALA	A	157	17.506	-7.403	17.592	1.00	73.15
ATOM	1242	N	GLY	A	158	20.057	-7.203	15.012	1.00	79.59
ATOM	1243	CA	GLY	A	158	20.238	-7.051	13.583	1.00	79.43
ATOM	1244	C	GLY	A	158	19.521	-5.779	13.201	1.00	80.65
ATOM	1245	O	GLY	A	158	20.137	-4.751	12.912	1.00	80.40
ATOM	1246	N	THR	A	159	18.196	-5.854	13.218	1.00	81.06
ATOM	1247	CA	THR	A	159	17.377	-4.708	12.890	1.00	81.41
ATOM	1248	C	THR	A	159	17.759	-3.631	13.898	1.00	82.68
ATOM	1249	O	THR	A	159	18.686	-2.843	13.681	1.00	81.35
ATOM	1250	CB	THR	A	159	15.869	-5.044	13.038	1.00	80.28
ATOM	1251	OG1	THR	A	159	15.621	-6.376	12.571	1.00	76.22
ATOM	1252	CG2	THR	A	159	15.024	-4.065	12.224	1.00	79.30
ATOM	1253	N	ARG	A	160	17.049	-3.640	15.019	1.00	83.93
ATOM	1254	CA	ARG	A	160	17.248	-2.691	16.100	1.00	85.46
ATOM	1255	C	ARG	A	160	18.557	-2.981	16.859	1.00	85.51
ATOM	1256	O	ARG	A	160	19.061	-4.112	16.846	1.00	86.01
ATOM	1257	CB	ARG	A	160	16.045	-2.796	17.048	1.00	88.12
ATOM	1258	CG	ARG	A	160	15.796	-1.608	17.966	1.00	94.20
ATOM	1259	CD	ARG	A	160	15.236	-0.413	17.208	1.00	98.02
ATOM	1260	NE	ARG	A	160	14.748	0.627	18.113	1.00	101.27
ATOM	1261	CZ	ARG	A	160	15.497	1.264	19.010	1.00	102.00
ATOM	1262	NH1	ARG	A	160	16.789	0.976	19.135	1.00	100.33
ATOM	1263	NH2	ARG	A	160	14.947	2.189	19.790	1.00	103.11
ATOM	1264	N	VAL	A	161	19.110	-1.952	17.502	1.00	83.93
ATOM	1265	CA	VAL	A	161	20.324	-2.095	18.307	1.00	81.73
ATOM	1266	C	VAL	A	161	19.832	-2.572	19.679	1.00	80.32
ATOM	1267	O	VAL	A	161	18.661	-2.922	19.818	1.00	80.72
ATOM	1268	CB	VAL	A	161	21.059	-0.741	18.473	1.00	81.65
ATOM	1269	CG1	VAL	A	161	20.225	0.208	19.321	1.00	80.39
ATOM	1270	CG2	VAL	A	161	22.431	-0.963	19.097	1.00	80.51
ATOM	1271	N	LEU	A	162	20.691	-2.585	20.694	1.00	77.94
ATOM	1272	CA	LEU	A	162	20.245	-3.037	22.010	1.00	75.31
ATOM	1273	C	LEU	A	162	21.053	-2.562	23.201	1.00	72.80
ATOM	1274	O	LEU	A	162	22.000	-1.786	23.076	1.00	73.01
ATOM	1275	CB	LEU	A	162	20.156	-4.563	22.048	1.00	76.52
ATOM	1276	CG	LEU	A	162	18.989	-5.174	21.269	1.00	77.46
ATOM	1277	CD1	LEU	A	162	19.091	-6.689	21.272	1.00	77.42
ATOM	1278	CD2	LEU	A	162	17.682	-4.706	21.891	1.00	76.70
ATOM	1279	N	GLU	A	163	20.658	-3.053	24.368	1.00	70.29
ATOM	1280	CA	GLU	A	163	21.299	-2.691	25.625	1.00	66.27
ATOM	1281	C	GLU	A	163	22.500	-3.580	25.926	1.00	61.01
ATOM	1282	O	GLU	A	163	22.373	-4.805	25.948	1.00	59.36
ATOM	1283	CB	GLU	A	163	20.279	-2.805	26.767	1.00	66.98
ATOM	1284	CG	GLU	A	163	20.566	-1.906	27.947	1.00	69.94
ATOM	1285	CD	GLU	A	163	20.632	-0.445	27.544	1.00	73.45
ATOM	1286	OE1	GLU	A	163	21.518	-0.088	26.726	1.00	75.94
ATOM	1287	OE2	GLU	A	163	19.794	0.341	28.041	1.00	71.50
ATOM	1288	N	ASN	A	164	23.663	-2.969	26.151	1.00	55.14
ATOM	1289	CA	ASN	A	164	24.864	-3.736	26.482	1.00	50.11
ATOM	1290	C	ASN	A	164	24.529	-4.711	27.606	1.00	47.76
ATOM	1291	O	ASN	A	164	23.475	-4.615	28.215	1.00	52.28
ATOM	1292	CB	ASN	A	164	25.984	-2.817	26.958	1.00	48.43
ATOM	1293	CG	ASN	A	164	26.581	-2.007	25.852	1.00	43.87
ATOM	1294	OD1	ASN	A	164	27.025	-2.555	24.848	1.00	47.22
ATOM	1295	ND2	ASN	A	164	26.614	-0.698	26.029	1.00	43.76
ATOM	1296	N	ALA	A	165	25.421	-5.638	27.909	1.00	43.10
ATOM	1297	CA	ALA	A	165	25.123	-6.592	28.960	1.00	40.00
ATOM	1298	C	ALA	A	165	26.372	-7.152	29.582	1.00	40.66
ATOM	1299	O	ALA	A	165	27.435	-7.173	28.959	1.00	44.35
ATOM	1300	CB	ALA	A	165	24.295	-7.723	28.403	1.00	35.89

ATOM	1301	N	LEU A 166	26.251	-7.591	30.827	1.00	36.94
ATOM	1302	CA	LEU A 166	27.373	-8.198	31.507	1.00	34.83
ATOM	1303	C	LEU A 166	26.829	-9.559	31.891	1.00	34.24
ATOM	1304	O	LEU A 166	26.163	-9.717	32.895	1.00	34.85
ATOM	1305	CB	LEU A 166	27.774	-7.377	32.729	1.00	31.59
ATOM	1306	CG	LEU A 166	28.856	-8.007	33.610	1.00	32.29
ATOM	1307	CD1	LEU A 166	30.059	-8.446	32.797	1.00	27.07
ATOM	1308	CD2	LEU A 166	29.248	-6.999	34.666	1.00	36.78
ATOM	1309	N	VAL A 167	27.092	-10.555	31.066	1.00	36.34
ATOM	1310	CA	VAL A 167	26.548	-11.864	31.354	1.00	37.38
ATOM	1311	C	VAL A 167	27.478	-12.689	32.193	1.00	38.68
ATOM	1312	O	VAL A 167	28.532	-13.144	31.733	1.00	37.36
ATOM	1313	CB	VAL A 167	26.203	-12.650	30.065	1.00	39.35
ATOM	1314	CG1	VAL A 167	25.331	-13.849	30.416	1.00	36.99
ATOM	1315	CG2	VAL A 167	25.486	-11.739	29.064	1.00	37.41
ATOM	1316	N	PRO A 168	27.087	-12.900	33.453	1.00	41.09
ATOM	1317	CA	PRO A 168	27.837	-13.678	34.443	1.00	42.39
ATOM	1318	C	PRO A 168	28.159	-15.102	33.982	1.00	44.75
ATOM	1319	O	PRO A 168	27.430	-15.708	33.193	1.00	46.30
ATOM	1320	CB	PRO A 168	26.920	-13.659	35.661	1.00	40.68
ATOM	1321	CG	PRO A 168	25.549	-13.522	35.062	1.00	41.51
ATOM	1322	CD	PRO A 168	25.778	-12.491	33.988	1.00	40.21
ATOM	1323	N	PRO A 169	29.267	-15.659	34.477	1.00	46.30
ATOM	1324	CA	PRO A 169	29.673	-17.015	34.107	1.00	46.51
ATOM	1325	C	PRO A 169	28.562	-18.041	34.343	1.00	45.27
ATOM	1326	O	PRO A 169	27.868	-18.006	35.353	1.00	46.77
ATOM	1327	CB	PRO A 169	30.885	-17.262	35.009	1.00	48.23
ATOM	1328	CG	PRO A 169	31.457	-15.894	35.180	1.00	46.88
ATOM	1329	CD	PRO A 169	30.219	-15.073	35.434	1.00	46.77
ATOM	1330	N	MET A 170	28.392	-18.955	33.405	1.00	44.41
ATOM	1331	CA	MET A 170	27.386	-19.989	33.554	1.00	42.99
ATOM	1332	C	MET A 170	26.062	-19.419	34.040	1.00	42.38
ATOM	1333	O	MET A 170	25.383	-20.005	34.876	1.00	39.67
ATOM	1334	CB	MET A 170	27.898	-21.027	34.530	1.00	41.47
ATOM	1335	CG	MET A 170	29.298	-21.441	34.219	1.00	45.65
ATOM	1336	SD	MET A 170	29.785	-22.827	35.219	1.00	60.19
ATOM	1337	CE	MET A 170	30.980	-22.051	36.370	1.00	57.40
ATOM	1338	N	GLY A 171	25.701	-18.263	33.507	1.00	44.14
ATOM	1339	CA	GLY A 171	24.453	-17.640	33.893	1.00	46.56
ATOM	1340	C	GLY A 171	23.915	-16.869	32.717	1.00	48.92
ATOM	1341	O	GLY A 171	24.546	-16.813	31.665	1.00	48.41
ATOM	1342	N	GLU A 172	22.750	-16.264	32.895	1.00	51.42
ATOM	1343	CA	GLU A 172	22.132	-15.511	31.819	1.00	54.41
ATOM	1344	C	GLU A 172	22.021	-14.039	32.185	1.00	55.68
ATOM	1345	O	GLU A 172	22.479	-13.608	33.243	1.00	55.16
ATOM	1346	CB	GLU A 172	20.730	-16.063	31.526	1.00	54.04
ATOM	1347	CG	GLU A 172	20.629	-17.583	31.578	1.00	57.91
ATOM	1348	CD	GLU A 172	19.214	-18.077	31.342	1.00	61.11
ATOM	1349	OE1	GLU A 172	18.280	-17.450	31.890	1.00	62.53
ATOM	1350	OE2	GLU A 172	19.039	-19.091	30.622	1.00	59.59
ATOM	1351	N	SER A 173	21.402	-13.285	31.285	1.00	56.47
ATOM	1352	CA	SER A 173	21.170	-11.864	31.449	1.00	57.97
ATOM	1353	C	SER A 173	20.150	-11.525	30.380	1.00	60.48
ATOM	1354	O	SER A 173	20.427	-11.639	29.185	1.00	62.08
ATOM	1355	CB	SER A 173	22.450	-11.068	31.212	1.00	56.56
ATOM	1356	OG	SER A 173	23.478	-11.489	32.084	1.00	63.49
ATOM	1357	N	THR A 174	18.957	-11.137	30.805	1.00	20.00
ATOM	1358	CG2	THR A 174	16.242	-12.225	31.130	1.00	20.00
ATOM	1359	OG1	THR A 174	16.469	-9.902	31.571	1.00	20.00
ATOM	1360	CB	THR A 174	16.540	-10.855	30.524	1.00	20.00
ATOM	1361	CA	THR A 174	17.920	-10.789	29.856	1.00	20.00
ATOM	1362	C	THR A 174	18.137	-9.369	29.327	1.00	20.00

ATOM	1363	O	THR A 174	18.792	-8.551	29.963	1.00	20.00
ATOM	1364	N	VAL A 175	17.586	-9.092	28.151	1.00	68.32
ATOM	1365	CA	VAL A 175	17.680	-7.779	27.517	1.00	71.76
ATOM	1366	C	VAL A 175	16.364	-7.578	26.775	1.00	75.10
ATOM	1367	O	VAL A 175	15.852	-8.526	26.177	1.00	77.83
ATOM	1368	CB	VAL A 175	18.821	-7.739	26.485	1.00	70.60
ATOM	1369	CG1	VAL A 175	18.980	-6.330	25.923	1.00	69.38
ATOM	1370	CG2	VAL A 175	20.099	-8.220	27.123	1.00	70.96
ATOM	1371	N	LYS A 176	15.807	-6.369	26.798	1.00	75.92
ATOM	1372	CA	LYS A 176	14.547	-6.144	26.097	1.00	77.61
ATOM	1373	C	LYS A 176	14.732	-6.383	24.599	1.00	79.98
ATOM	1374	O	LYS A 176	15.822	-6.177	24.056	1.00	79.49
ATOM	1375	CB	LYS A 176	14.029	-4.729	26.350	1.00	76.54
ATOM	1376	CG	LYS A 176	13.652	-4.462	27.797	1.00	78.90
ATOM	1377	CD	LYS A 176	14.884	-4.468	28.710	1.00	83.36
ATOM	1378	CE	LYS A 176	14.757	-5.486	29.848	1.00	83.10
ATOM	1379	NZ	LYS A 176	13.644	-5.164	30.791	1.00	79.44
ATOM	1380	N	LEU A 177	13.664	-6.827	23.941	1.00	81.98
ATOM	1381	CA	LEU A 177	13.694	-7.121	22.509	1.00	85.14
ATOM	1382	C	LEU A 177	12.567	-6.351	21.814	1.00	87.64
ATOM	1383	O	LEU A 177	11.428	-6.819	21.746	1.00	88.91
ATOM	1384	CB	LEU A 177	13.534	-8.631	22.304	1.00	83.47
ATOM	1385	CG	LEU A 177	14.038	-9.278	21.014	1.00	81.77
ATOM	1386	CD1	LEU A 177	15.445	-8.803	20.703	1.00	80.13
ATOM	1387	CD2	LEU A 177	14.013	-10.786	21.177	1.00	78.78
ATOM	1388	N	PRO A 178	12.882	-5.154	21.289	1.00	89.96
ATOM	1389	CA	PRO A 178	11.984	-4.228	20.588	1.00	93.23
ATOM	1390	C	PRO A 178	11.600	-4.545	19.144	1.00	96.49
ATOM	1391	O	PRO A 178	12.015	-3.833	18.225	1.00	96.14
ATOM	1392	CB	PRO A 178	12.731	-2.908	20.686	1.00	92.42
ATOM	1393	CG	PRO A 178	14.133	-3.346	20.513	1.00	92.47
ATOM	1394	CD	PRO A 178	14.218	-4.551	21.433	1.00	90.44
ATOM	1395	N	SER A 179	10.792	-5.591	18.964	1.00	100.19
ATOM	1396	CA	SER A 179	10.299	-6.041	17.652	1.00	102.71
ATOM	1397	C	SER A 179	11.326	-6.100	16.514	1.00	103.13
ATOM	1398	O	SER A 179	11.623	-7.180	15.998	1.00	102.93
ATOM	1399	CB	SER A 179	9.102	-5.180	17.226	1.00	104.08
ATOM	1400	OG	SER A 179	8.009	-5.344	18.122	1.00	105.40
ATOM	1401	N	ASP A 180	11.843	-4.940	16.115	1.00	104.15
ATOM	1402	CA	ASP A 180	12.846	-4.850	15.056	1.00	104.28
ATOM	1403	C	ASP A 180	13.958	-5.823	15.419	1.00	103.91
ATOM	1404	O	ASP A 180	14.947	-5.431	16.038	1.00	104.08
ATOM	1405	CB	ASP A 180	13.444	-3.438	14.992	1.00	104.76
ATOM	1406	CG	ASP A 180	12.408	-2.343	15.164	1.00	105.12
ATOM	1407	OD1	ASP A 180	11.198	-2.653	15.214	1.00	107.34
ATOM	1408	OD2	ASP A 180	12.811	-1.162	15.250	1.00	103.44
ATOM	1409	N	ALA A 181	13.804	-7.085	15.037	1.00	103.02
ATOM	1410	CA	ALA A 181	14.809	-8.083	15.363	1.00	102.13
ATOM	1411	C	ALA A 181	15.069	-9.038	14.215	1.00	101.03
ATOM	1412	O	ALA A 181	16.125	-8.999	13.582	1.00	100.41
ATOM	1413	CB	ALA A 181	14.374	-8.868	16.598	1.00	101.94
ATOM	1414	N	GLY A 182	14.094	-9.900	13.954	1.00	100.28
ATOM	1415	CA	GLY A 182	14.239	-10.876	12.894	1.00	98.70
ATOM	1416	C	GLY A 182	14.975	-12.098	13.411	1.00	96.62
ATOM	1417	O	GLY A 182	14.356	-13.122	13.720	1.00	95.59
ATOM	1418	N	SER A 183	16.297	-11.981	13.519	1.00	94.44
ATOM	1419	CA	SER A 183	17.134	-13.073	14.000	1.00	91.78
ATOM	1420	C	SER A 183	18.607	-12.774	13.779	1.00	89.42
ATOM	1421	O	SER A 183	19.476	-13.488	14.283	1.00	88.50
ATOM	1422	CB	SER A 183	16.782	-14.370	13.270	1.00	93.13
ATOM	1423	OG	SER A 183	17.744	-15.375	13.531	1.00	94.37
ATOM	1424	N	ASN A 184	18.889	-11.716	13.027	1.00	86.54

ATOM	1425	CA	ASN	A	184	20.269	-11.367	12.729	1.00	84.65
ATOM	1426	C	ASN	A	184	21.033	-10.757	13.900	1.00	82.09
ATOM	1427	O	ASN	A	184	21.208	-9.543	13.979	1.00	80.86
ATOM	1428	CB	ASN	A	184	20.327	-10.421	11.527	1.00	86.23
ATOM	1429	CG	ASN	A	184	21.736	-10.256	10.990	1.00	88.77
ATOM	1430	OD1	ASN	A	184	22.434	-11.244	10.736	1.00	90.08
ATOM	1431	ND2	ASN	A	184	22.163	-9.009	10.810	1.00	90.29
ATOM	1432	N	ILE	A	185	21.508	-11.609	14.800	1.00	79.35
ATOM	1433	CA	ILE	A	185	22.257	-11.127	15.950	1.00	76.24
ATOM	1434	C	ILE	A	185	23.691	-10.743	15.605	1.00	74.23
ATOM	1435	O	ILE	A	185	24.419	-11.486	14.943	1.00	71.89
ATOM	1436	CB	ILE	A	185	22.287	-12.164	17.087	1.00	75.40
ATOM	1437	CG1	ILE	A	185	20.870	-12.379	17.635	1.00	72.50
ATOM	1438	CG2	ILE	A	185	23.257	-11.712	18.165	1.00	74.12
ATOM	1439	CD1	ILE	A	185	20.069	-11.098	17.822	1.00	68.58
ATOM	1440	N	THR	A	186	24.083	-9.571	16.087	1.00	73.06
ATOM	1441	CA	THR	A	186	25.410	-9.027	15.852	1.00	70.01
ATOM	1442	C	THR	A	186	25.924	-8.390	17.140	1.00	68.28
ATOM	1443	O	THR	A	186	25.448	-7.326	17.540	1.00	69.42
ATOM	1444	CB	THR	A	186	25.349	-7.956	14.770	1.00	67.99
ATOM	1445	OG1	THR	A	186	24.276	-8.261	13.875	1.00	68.19
ATOM	1446	CG2	THR	A	186	26.652	-7.910	13.995	1.00	67.60
ATOM	1447	N	TYR	A	187	26.896	-9.032	17.778	1.00	64.24
ATOM	1448	CA	TYR	A	187	27.450	-8.513	19.018	1.00	61.53
ATOM	1449	C	TYR	A	187	28.978	-8.562	19.037	1.00	59.66
ATOM	1450	O	TYR	A	187	29.601	-9.250	18.228	1.00	59.60
ATOM	1451	CB	TYR	A	187	26.910	-9.324	20.187	1.00	60.05
ATOM	1452	CG	TYR	A	187	27.552	-10.683	20.291	1.00	58.65
ATOM	1453	CD1	TYR	A	187	27.058	-11.763	19.574	1.00	57.45
ATOM	1454	CD2	TYR	A	187	28.666	-10.887	21.100	1.00	58.79
ATOM	1455	CE1	TYR	A	187	27.653	-13.013	19.663	1.00	57.78
ATOM	1456	CE2	TYR	A	187	29.267	-12.135	21.198	1.00	56.44
ATOM	1457	CZ	TYR	A	187	28.755	-13.191	20.481	1.00	57.45
ATOM	1458	OH	TYR	A	187	29.326	-14.432	20.606	1.00	57.82
ATOM	1459	N	ARG	A	188	29.564	-7.831	19.983	1.00	57.46
ATOM	1460	CA	ARG	A	188	31.018	-7.763	20.165	1.00	54.33
ATOM	1461	C	ARG	A	188	31.284	-7.744	21.666	1.00	49.96
ATOM	1462	O	ARG	A	188	30.485	-7.204	22.421	1.00	50.32
ATOM	1463	CB	ARG	A	188	31.582	-6.475	19.548	1.00	56.38
ATOM	1464	CG	ARG	A	188	31.270	-6.278	18.078	1.00	57.07
ATOM	1465	CD	ARG	A	188	31.770	-4.930	17.572	1.00	54.59
ATOM	1466	NE	ARG	A	188	33.217	-4.821	17.643	1.00	55.11
ATOM	1467	CZ	ARG	A	188	34.048	-5.631	17.002	1.00	55.36
ATOM	1468	NH1	ARG	A	188	33.566	-6.598	16.247	1.00	56.92
ATOM	1469	NH2	ARG	A	188	35.359	-5.485	17.121	1.00	58.00
ATOM	1470	N	THR	A	189	32.391	-8.322	22.111	1.00	44.03
ATOM	1471	CA	THR	A	189	32.676	-8.305	23.537	1.00	40.96
ATOM	1472	C	THR	A	189	33.960	-7.571	23.868	1.00	41.97
ATOM	1473	O	THR	A	189	34.809	-7.368	22.998	1.00	44.09
ATOM	1474	CB	THR	A	189	32.808	-9.695	24.098	1.00	37.22
ATOM	1475	OG1	THR	A	189	33.968	-10.316	23.533	1.00	32.43
ATOM	1476	CG2	THR	A	189	31.552	-10.492	23.801	1.00	30.86
ATOM	1477	N	ILE	A	190	34.102	-7.172	25.131	1.00	39.78
ATOM	1478	CA	ILE	A	190	35.298	-6.468	25.565	1.00	37.85
ATOM	1479	C	ILE	A	190	36.243	-7.471	26.219	1.00	37.95
ATOM	1480	O	ILE	A	190	35.878	-8.127	27.186	1.00	37.77
ATOM	1481	CB	ILE	A	190	34.929	-5.342	26.524	1.00	34.38
ATOM	1482	CG1	ILE	A	190	34.080	-4.322	25.775	1.00	33.19
ATOM	1483	CG2	ILE	A	190	36.170	-4.669	27.046	1.00	36.31
ATOM	1484	CD1	ILE	A	190	33.645	-3.143	26.600	1.00	37.72
ATOM	1485	N	ASN	A	191	37.451	-7.599	25.672	1.00	37.82
ATOM	1486	CA	ASN	A	191	38.428	-8.565	26.183	1.00	38.41

ATOM	1487	C	ASN	A	191	39.323	-8.108	27.340	1.00	35.99
ATOM	1488	O	ASN	A	191	39.361	-6.927	27.697	1.00	35.36
ATOM	1489	CB	ASN	A	191	39.325	-9.073	25.037	1.00	40.67
ATOM	1490	CG	ASN	A	191	40.319	-8.024	24.562	1.00	41.41
ATOM	1491	OD1	ASN	A	191	41.076	-7.473	25.349	1.00	41.67
ATOM	1492	ND2	ASN	A	191	40.320	-7.753	23.270	1.00	44.70
ATOM	1493	N	ASP	A	192	40.058	-9.070	27.893	1.00	31.63
ATOM	1494	CA	ASP	A	192	40.963	-8.846	29.011	1.00	31.83
ATOM	1495	C	ASP	A	192	41.829	-7.593	28.924	1.00	33.14
ATOM	1496	O	ASP	A	192	42.383	-7.149	29.924	1.00	35.47
ATOM	1497	CB	ASP	A	192	41.866	-10.066	29.187	1.00	31.10
ATOM	1498	CG	ASP	A	192	41.149	-11.240	29.836	1.00	35.33
ATOM	1499	OD1	ASP	A	192	40.009	-11.066	30.308	1.00	39.36
ATOM	1500	OD2	ASP	A	192	41.729	-12.342	29.891	1.00	36.89
ATOM	1501	N	TYR	A	193	41.942	-7.011	27.738	1.00	33.33
ATOM	1502	CA	TYR	A	193	42.775	-5.831	27.568	1.00	31.50
ATOM	1503	C	TYR	A	193	41.954	-4.599	27.256	1.00	33.00
ATOM	1504	O	TYR	A	193	42.495	-3.569	26.824	1.00	33.57
ATOM	1505	CB	TYR	A	193	43.799	-6.097	26.478	1.00	26.19
ATOM	1506	CG	TYR	A	193	44.514	-7.389	26.735	1.00	28.24
ATOM	1507	CD1	TYR	A	193	45.339	-7.532	27.841	1.00	31.10
ATOM	1508	CD2	TYR	A	193	44.327	-8.492	25.908	1.00	30.27
ATOM	1509	CE1	TYR	A	193	45.965	-8.748	28.120	1.00	32.37
ATOM	1510	CE2	TYR	A	193	44.948	-9.716	26.177	1.00	28.95
ATOM	1511	CZ	TYR	A	193	45.769	-9.839	27.283	1.00	30.31
ATOM	1512	OH	TYR	A	193	46.417	-11.035	27.544	1.00	24.83
ATOM	1513	N	GLY	A	194	40.646	-4.720	27.491	1.00	30.93
ATOM	1514	CA	GLY	A	194	39.730	-3.616	27.274	1.00	31.78
ATOM	1515	C	GLY	A	194	39.563	-3.281	25.814	1.00	33.48
ATOM	1516	O	GLY	A	194	39.180	-2.161	25.453	1.00	31.17
ATOM	1517	N	ALA	A	195	39.851	-4.274	24.978	1.00	34.03
ATOM	1518	CA	ALA	A	195	39.753	-4.128	23.539	1.00	33.65
ATOM	1519	C	ALA	A	195	38.599	-4.954	22.998	1.00	33.71
ATOM	1520	O	ALA	A	195	38.325	-6.050	23.484	1.00	30.26
ATOM	1521	CB	ALA	A	195	41.057	-4.558	22.890	1.00	37.36
ATOM	1522	N	LEU	A	196	37.920	-4.395	22.000	1.00	34.93
ATOM	1523	CA	LEU	A	196	36.787	-5.042	21.344	1.00	37.57
ATOM	1524	C	LEU	A	196	37.211	-6.276	20.584	1.00	40.42
ATOM	1525	O	LEU	A	196	38.290	-6.309	19.994	1.00	41.51
ATOM	1526	CB	LEU	A	196	36.145	-4.090	20.337	1.00	32.54
ATOM	1527	CG	LEU	A	196	35.122	-3.078	20.834	1.00	33.90
ATOM	1528	CD1	LEU	A	196	35.309	-1.744	20.136	1.00	30.68
ATOM	1529	CD2	LEU	A	196	33.737	-3.637	20.601	1.00	30.28
ATOM	1530	N	THR	A	197	36.361	-7.293	20.597	1.00	43.70
ATOM	1531	CA	THR	A	197	36.644	-8.499	19.843	1.00	49.54
ATOM	1532	C	THR	A	197	35.789	-8.372	18.573	1.00	53.57
ATOM	1533	O	THR	A	197	34.851	-7.565	18.526	1.00	53.65
ATOM	1534	CB	THR	A	197	36.277	-9.793	20.631	1.00	50.16
ATOM	1535	OG1	THR	A	197	34.850	-9.940	20.735	1.00	48.78
ATOM	1536	CG2	THR	A	197	36.887	-9.733	22.012	1.00	52.54
ATOM	1537	N	PRO	A	198	36.111	-9.156	17.528	1.00	55.36
ATOM	1538	CA	PRO	A	198	35.415	-9.173	16.232	1.00	55.01
ATOM	1539	C	PRO	A	198	33.915	-9.455	16.290	1.00	54.57
ATOM	1540	O	PRO	A	198	33.452	-10.236	17.131	1.00	52.45
ATOM	1541	CB	PRO	A	198	36.165	-10.254	15.459	1.00	58.81
ATOM	1542	CG	PRO	A	198	36.630	-11.195	16.576	1.00	57.97
ATOM	1543	CD	PRO	A	198	37.141	-10.210	17.582	1.00	55.17
ATOM	1544	N	LYS	A	199	33.169	-8.829	15.377	1.00	54.73
ATOM	1545	CA	LYS	A	199	31.724	-9.006	15.314	1.00	55.12
ATOM	1546	C	LYS	A	199	31.461	-10.487	15.329	1.00	55.09
ATOM	1547	O	LYS	A	199	32.368	-11.280	15.100	1.00	56.64
ATOM	1548	CB	LYS	A	199	31.141	-8.404	14.033	1.00	55.22

ATOM	1549	CG	LYS	A	199	31.105	-6.890	14.017	1.00	60.08
ATOM	1550	CD	LYS	A	199	30.209	-6.343	12.899	1.00	64.17
ATOM	1551	CE	LYS	A	199	29.992	-4.826	13.041	1.00	64.04
ATOM	1552	NZ	LYS	A	199	29.027	-4.290	12.036	1.00	59.78
ATOM	1553	N	MET	A	200	30.227	-10.867	15.611	1.00	54.51
ATOM	1554	CA	MET	A	200	29.874	-12.272	15.632	1.00	57.29
ATOM	1555	C	MET	A	200	28.387	-12.380	15.417	1.00	59.01
ATOM	1556	O	MET	A	200	27.652	-11.426	15.674	1.00	60.84
ATOM	1557	CB	MET	A	200	30.284	-12.906	16.961	1.00	58.40
ATOM	1558	CG	MET	A	200	31.782	-13.130	17.061	1.00	60.69
ATOM	1559	SD	MET	A	200	32.359	-13.539	18.701	1.00	64.70
ATOM	1560	CE	MET	A	200	32.044	-15.285	18.733	1.00	61.64
ATOM	1561	N	THR	A	201	27.940	-13.531	14.929	1.00	59.13
ATOM	1562	CA	THR	A	201	26.525	-13.716	14.680	1.00	59.01
ATOM	1563	C	THR	A	201	25.889	-14.616	15.719	1.00	60.50
ATOM	1564	O	THR	A	201	26.349	-15.728	15.972	1.00	59.66
ATOM	1565	CB	THR	A	201	26.290	-14.285	13.280	1.00	57.62
ATOM	1566	OG1	THR	A	201	26.949	-13.446	12.323	1.00	53.47
ATOM	1567	CG2	THR	A	201	24.792	-14.331	12.963	1.00	55.83
ATOM	1568	N	GLY	A	202	24.821	-14.112	16.320	1.00	62.42
ATOM	1569	CA	GLY	A	202	24.124	-14.858	17.348	1.00	67.00
ATOM	1570	C	GLY	A	202	23.682	-16.254	16.967	1.00	68.79
ATOM	1571	O	GLY	A	202	22.992	-16.458	15.967	1.00	69.98
ATOM	1572	N	VAL	A	203	24.080	-17.215	17.795	1.00	70.73
ATOM	1573	CA	VAL	A	203	23.748	-18.622	17.615	1.00	71.70
ATOM	1574	C	VAL	A	203	22.765	-19.052	18.709	1.00	73.86
ATOM	1575	O	VAL	A	203	23.181	-19.377	19.830	1.00	74.05
ATOM	1576	CB	VAL	A	203	25.019	-19.499	17.727	1.00	70.37
ATOM	1577	CG1	VAL	A	203	24.657	-20.976	17.602	1.00	67.30
ATOM	1578	CG2	VAL	A	203	26.024	-19.088	16.669	1.00	68.14
ATOM	1579	N	MET	A	204	21.470	-19.052	18.395	1.00	75.05
ATOM	1580	CA	MET	A	204	20.470	-19.455	19.384	1.00	78.63
ATOM	1581	C	MET	A	204	20.766	-20.866	19.862	1.00	79.39
ATOM	1582	O	MET	A	204	21.428	-21.639	19.174	1.00	79.91
ATOM	1583	CB	MET	A	204	19.055	-19.414	18.798	1.00	78.68
ATOM	1584	CG	MET	A	204	18.527	-18.023	18.524	1.00	81.57
ATOM	1585	SD	MET	A	204	19.596	-17.089	17.408	1.00	88.79
ATOM	1586	CE	MET	A	204	19.108	-17.733	15.804	1.00	87.66
ATOM	1587	N	GLU	A	205	20.283	-21.196	21.050	1.00	80.49
ATOM	1588	CA	GLU	A	205	20.491	-22.521	21.602	1.00	81.71
ATOM	1589	C	GLU	A	205	19.336	-23.418	21.161	1.00	82.80
ATOM	1590	O	GLU	A	205	19.602	-24.455	20.515	1.00	82.90
ATOM	1591	CB	GLU	A	205	20.535	-22.440	23.120	1.00	83.00
ATOM	1592	CG	GLU	A	205	19.356	-21.697	23.696	1.00	85.68
ATOM	1593	CD	GLU	A	205	19.344	-21.720	25.198	1.00	90.09
ATOM	1594	OE1	GLU	A	205	20.271	-22.321	25.793	1.00	90.51
ATOM	1595	OE2	GLU	A	205	18.405	-21.136	25.782	1.00	92.73
ATOM	1596	OXT	GLU	A	205	18.173	-23.069	21.460	1.00	83.19
ATOM	1597	N	PHE	B	1	83.462	-13.300	5.856	1.00	26.12
ATOM	1598	CA	PHE	B	1	82.482	-12.881	6.890	1.00	22.69
ATOM	1599	C	PHE	B	1	81.139	-13.558	6.623	1.00	21.90
ATOM	1600	O	PHE	B	1	80.649	-13.583	5.491	1.00	19.09
ATOM	1601	CB	PHE	B	1	82.364	-11.353	6.869	1.00	22.92
ATOM	1602	CG	PHE	B	1	81.341	-10.806	7.821	1.00	20.45
ATOM	1603	CD1	PHE	B	1	80.008	-10.726	7.455	1.00	20.72
ATOM	1604	CD2	PHE	B	1	81.713	-10.392	9.091	1.00	19.08
ATOM	1605	CE1	PHE	B	1	79.068	-10.247	8.327	1.00	19.74
ATOM	1606	CE2	PHE	B	1	80.789	-9.912	9.974	1.00	17.84
ATOM	1607	CZ	PHE	B	1	79.455	-9.836	9.595	1.00	24.52
ATOM	1608	N	ALA	B	2	80.559	-14.137	7.665	1.00	23.78
ATOM	1609	CA	ALA	B	2	79.277	-14.821	7.526	1.00	27.21
ATOM	1610	C	ALA	B	2	78.419	-14.692	8.773	1.00	29.83

ATOM	1611	O	ALA	B	2	78.924	-14.417	9.867	1.00	33.99
ATOM	1612	CB	ALA	B	2	79.505	-16.277	7.226	1.00	23.88
ATOM	1613	N	CYS	B	3	77.119	-14.892	8.619	1.00	28.60
ATOM	1614	CA	CYS	B	3	76.247	-14.802	9.768	1.00	30.20
ATOM	1615	C	CYS	B	3	75.226	-15.915	9.707	1.00	30.94
ATOM	1616	O	CYS	B	3	74.871	-16.388	8.627	1.00	32.64
ATOM	1617	CB	CYS	B	3	75.526	-13.465	9.790	1.00	33.03
ATOM	1618	SG	CYS	B	3	76.553	-11.977	9.614	1.00	38.69
ATOM	1619	N	LYS	B	4	74.760	-16.341	10.871	1.00	28.42
ATOM	1620	CA	LYS	B	4	73.770	-17.384	10.909	1.00	29.45
ATOM	1621	C	LYS	B	4	72.733	-16.976	11.920	1.00	29.65
ATOM	1622	O	LYS	B	4	72.998	-16.190	12.833	1.00	28.68
ATOM	1623	CB	LYS	B	4	74.389	-18.735	11.278	1.00	33.33
ATOM	1624	CG	LYS	B	4	74.503	-19.018	12.773	1.00	39.57
ATOM	1625	CD	LYS	B	4	75.153	-20.389	13.082	1.00	46.85
ATOM	1626	CE	LYS	B	4	74.435	-21.610	12.428	1.00	51.90
ATOM	1627	NZ	LYS	B	4	74.812	-21.905	10.988	1.00	49.53
ATOM	1628	N	THR	B	5	71.544	-17.523	11.729	1.00	28.49
ATOM	1629	CA	THR	B	5	70.398	-17.241	12.554	1.00	26.34
ATOM	1630	C	THR	B	5	70.327	-18.260	13.680	1.00	29.53
ATOM	1631	O	THR	B	5	70.699	-19.420	13.505	1.00	30.47
ATOM	1632	CB	THR	B	5	69.128	-17.288	11.661	1.00	22.74
ATOM	1633	OG1	THR	B	5	68.409	-16.059	11.786	1.00	21.81
ATOM	1634	CG2	THR	B	5	68.246	-18.455	12.016	1.00	19.73
ATOM	1635	N	ALA	B	6	69.864	-17.825	14.843	1.00	31.98
ATOM	1636	CA	ALA	B	6	69.734	-18.723	15.978	1.00	32.34
ATOM	1637	C	ALA	B	6	69.025	-19.989	15.547	1.00	33.99
ATOM	1638	O	ALA	B	6	69.371	-21.066	16.006	1.00	33.28
ATOM	1639	CB	ALA	B	6	68.964	-18.058	17.081	1.00	35.24
ATOM	1640	N	ASN	B	7	68.031	-19.852	14.670	1.00	38.18
ATOM	1641	CA	ASN	B	7	67.280	-20.997	14.159	1.00	42.84
ATOM	1642	C	ASN	B	7	68.148	-21.843	13.245	1.00	45.32
ATOM	1643	O	ASN	B	7	67.726	-22.906	12.793	1.00	48.04
ATOM	1644	CB	ASN	B	7	66.067	-20.540	13.359	1.00	46.85
ATOM	1645	CG	ASN	B	7	64.926	-20.085	14.231	1.00	53.04
ATOM	1646	OD1	ASN	B	7	64.314	-20.888	14.943	1.00	57.61
ATOM	1647	ND2	ASN	B	7	64.624	-18.785	14.181	1.00	52.32
ATOM	1648	N	GLY	B	8	69.352	-21.359	12.957	1.00	45.88
ATOM	1649	CA	GLY	B	8	70.259	-22.097	12.097	1.00	47.00
ATOM	1650	C	GLY	B	8	70.437	-21.552	10.685	1.00	47.07
ATOM	1651	O	GLY	B	8	71.434	-21.873	10.031	1.00	47.76
ATOM	1652	N	THR	B	9	69.494	-20.736	10.206	1.00	44.67
ATOM	1653	CA	THR	B	9	69.575	-20.173	8.852	1.00	39.65
ATOM	1654	C	THR	B	9	70.747	-19.231	8.634	1.00	37.80
ATOM	1655	O	THR	B	9	70.975	-18.314	9.428	1.00	38.94
ATOM	1656	CB	THR	B	9	68.304	-19.438	8.504	1.00	37.05
ATOM	1657	OG1	THR	B	9	67.262	-20.395	8.327	1.00	42.95
ATOM	1658	CG2	THR	B	9	68.474	-18.652	7.241	1.00	33.16
ATOM	1659	N	ALA	B	10	71.471	-19.432	7.537	1.00	32.40
ATOM	1660	CA	ALA	B	10	72.635	-18.605	7.264	1.00	30.06
ATOM	1661	C	ALA	B	10	72.627	-17.779	5.996	1.00	28.19
ATOM	1662	O	ALA	B	10	71.870	-18.029	5.066	1.00	27.92
ATOM	1663	CB	ALA	B	10	73.870	-19.470	7.274	1.00	28.10
ATOM	1664	N	ILE	B	11	73.491	-16.776	5.985	1.00	25.49
ATOM	1665	CA	ILE	B	11	73.671	-15.912	4.833	1.00	26.22
ATOM	1666	C	ILE	B	11	75.173	-15.963	4.627	1.00	23.55
ATOM	1667	O	ILE	B	11	75.923	-15.449	5.438	1.00	27.89
ATOM	1668	CB	ILE	B	11	73.264	-14.455	5.125	1.00	28.86
ATOM	1669	CG1	ILE	B	11	71.789	-14.387	5.500	1.00	28.17
ATOM	1670	CG2	ILE	B	11	73.518	-13.590	3.899	1.00	29.33
ATOM	1671	CD1	ILE	B	11	71.292	-12.984	5.743	1.00	24.90
ATOM	1672	N	PRO	B	12	75.630	-16.590	3.544	1.00	20.75

ATOM	1673	CA	PRO	B	12	77.057	-16.728	3.223	1.00	19.22
ATOM	1674	C	PRO	B	12	77.757	-15.429	2.877	1.00	19.88
ATOM	1675	O	PRO	B	12	77.111	-14.389	2.837	1.00	19.57
ATOM	1676	CB	PRO	B	12	77.045	-17.703	2.057	1.00	19.99
ATOM	1677	CG	PRO	B	12	75.739	-17.383	1.377	1.00	20.48
ATOM	1678	CD	PRO	B	12	74.783	-17.212	2.513	1.00	17.95
ATOM	1679	N	ILE	B	13	79.072	-15.493	2.641	1.00	20.27
ATOM	1680	CA	ILE	B	13	79.846	-14.302	2.263	1.00	22.98
ATOM	1681	C	ILE	B	13	79.170	-13.692	1.054	1.00	24.58
ATOM	1682	O	ILE	B	13	78.579	-14.406	0.246	1.00	25.86
ATOM	1683	CB	ILE	B	13	81.305	-14.612	1.827	1.00	22.70
ATOM	1684	CG1	ILE	B	13	81.324	-15.886	1.008	1.00	20.76
ATOM	1685	CG2	ILE	B	13	82.245	-14.642	3.021	1.00	23.10
ATOM	1686	CD1	ILE	B	13	82.692	-16.453	0.845	1.00	28.63
ATOM	1687	N	GLY	B	14	79.280	-12.376	0.921	1.00	25.82
ATOM	1688	CA	GLY	B	14	78.636	-11.693	-0.186	1.00	27.33
ATOM	1689	C	GLY	B	14	77.302	-11.129	0.281	1.00	25.56
ATOM	1690	O	GLY	B	14	76.781	-10.172	-0.281	1.00	25.00
ATOM	1691	N	GLY	B	15	76.755	-11.739	1.325	1.00	24.70
ATOM	1692	CA	GLY	B	15	75.490	-11.295	1.862	1.00	24.30
ATOM	1693	C	GLY	B	15	74.263	-11.951	1.249	1.00	25.22
ATOM	1694	O	GLY	B	15	74.329	-12.897	0.459	1.00	26.33
ATOM	1695	N	GLY	B	16	73.116	-11.412	1.615	1.00	21.46
ATOM	1696	CA	GLY	B	16	71.872	-11.950	1.139	1.00	18.87
ATOM	1697	C	GLY	B	16	70.882	-11.612	2.225	1.00	18.93
ATOM	1698	O	GLY	B	16	71.010	-10.575	2.865	1.00	18.09
ATOM	1699	N	SER	B	17	69.904	-12.475	2.456	1.00	16.29
ATOM	1700	CA	SER	B	17	68.935	-12.174	3.478	1.00	15.84
ATOM	1701	C	SER	B	17	68.374	-13.394	4.183	1.00	16.68
ATOM	1702	O	SER	B	17	68.609	-14.538	3.789	1.00	16.67
ATOM	1703	CB	SER	B	17	67.810	-11.352	2.878	1.00	16.46
ATOM	1704	OG	SER	B	17	67.129	-12.093	1.890	1.00	24.19
ATOM	1705	N	ALA	B	18	67.637	-13.144	5.255	1.00	17.48
ATOM	1706	CA	ALA	B	18	67.058	-14.233	6.023	1.00	17.54
ATOM	1707	C	ALA	B	18	65.998	-13.695	6.942	1.00	17.73
ATOM	1708	O	ALA	B	18	66.007	-12.509	7.295	1.00	21.81
ATOM	1709	CB	ALA	B	18	68.143	-14.929	6.857	1.00	9.92
ATOM	1710	N	ASN	B	19	65.096	-14.582	7.333	1.00	15.14
ATOM	1711	CA	ASN	B	19	64.047	-14.222	8.256	1.00	16.38
ATOM	1712	C	ASN	B	19	64.502	-14.536	9.657	1.00	17.86
ATOM	1713	O	ASN	B	19	65.101	-15.581	9.933	1.00	18.20
ATOM	1714	CB	ASN	B	19	62.774	-15.016	7.989	1.00	14.75
ATOM	1715	CG	ASN	B	19	62.023	-14.525	6.787	1.00	14.65
ATOM	1716	OD1	ASN	B	19	62.428	-13.559	6.135	1.00	21.36
ATOM	1717	ND2	ASN	B	19	60.914	-15.184	6.480	1.00	10.97
ATOM	1718	N	VAL	B	20	64.181	-13.620	10.546	1.00	18.69
ATOM	1719	CA	VAL	B	20	64.483	-13.765	11.949	1.00	19.81
ATOM	1720	C	VAL	B	20	63.139	-13.686	12.670	1.00	17.49
ATOM	1721	O	VAL	B	20	62.553	-12.609	12.766	1.00	15.67
ATOM	1722	CB	VAL	B	20	65.384	-12.626	12.372	1.00	22.44
ATOM	1723	CG1	VAL	B	20	65.647	-12.665	13.874	1.00	20.41
ATOM	1724	CG2	VAL	B	20	66.651	-12.710	11.554	1.00	24.61
ATOM	1725	N	TYR	B	21	62.639	-14.820	13.147	1.00	14.63
ATOM	1726	CA	TYR	B	21	61.357	-14.827	13.850	1.00	16.92
ATOM	1727	C	TYR	B	21	61.510	-14.551	15.364	1.00	18.76
ATOM	1728	O	TYR	B	21	62.412	-15.065	16.013	1.00	18.11
ATOM	1729	CB	TYR	B	21	60.647	-16.160	13.613	1.00	13.30
ATOM	1730	CG	TYR	B	21	60.621	-16.555	12.152	1.00	15.31
ATOM	1731	CD1	TYR	B	21	61.677	-17.247	11.585	1.00	14.30
ATOM	1732	CD2	TYR	B	21	59.559	-16.190	11.326	1.00	17.90
ATOM	1733	CE1	TYR	B	21	61.687	-17.566	10.241	1.00	13.54
ATOM	1734	CE2	TYR	B	21	59.558	-16.502	9.975	1.00	15.30

ATOM	1735	CZ	TYR	B	21	60.629	-17.193	9.440	1.00	16.49
ATOM	1736	OH	TYR	B	21	60.643	-17.511	8.104	1.00	16.64
ATOM	1737	N	VAL	B	22	60.625	-13.729	15.920	1.00	19.53
ATOM	1738	CA	VAL	B	22	60.685	-13.383	17.335	1.00	16.16
ATOM	1739	C	VAL	B	22	59.371	-13.508	18.086	1.00	18.78
ATOM	1740	O	VAL	B	22	58.300	-13.263	17.541	1.00	22.51
ATOM	1741	CB	VAL	B	22	61.129	-11.956	17.518	1.00	13.95
ATOM	1742	CG1	VAL	B	22	62.487	-11.755	16.914	1.00	16.59
ATOM	1743	CG2	VAL	B	22	60.135	-11.042	16.869	1.00	15.76
ATOM	1744	N	ASN	B	23	59.471	-13.886	19.355	1.00	21.07
ATOM	1745	CA	ASN	B	23	58.319	-14.008	20.240	1.00	19.87
ATOM	1746	C	ASN	B	23	58.446	-12.783	21.150	1.00	22.33
ATOM	1747	O	ASN	B	23	59.296	-12.750	22.042	1.00	23.08
ATOM	1748	CB	ASN	B	23	58.432	-15.274	21.074	1.00	20.83
ATOM	1749	CG	ASN	B	23	58.766	-16.495	20.245	1.00	19.10
ATOM	1750	OD1	ASN	B	23	57.981	-16.942	19.425	1.00	25.22
ATOM	1751	ND2	ASN	B	23	59.943	-17.042	20.462	1.00	24.81
ATOM	1752	N	LEU	B	24	57.620	-11.768	20.902	1.00	23.11
ATOM	1753	CA	LEU	B	24	57.657	-10.520	21.668	1.00	21.57
ATOM	1754	C	LEU	B	24	56.753	-10.607	22.875	1.00	25.00
ATOM	1755	O	LEU	B	24	55.831	-11.436	22.914	1.00	24.90
ATOM	1756	CB	LEU	B	24	57.210	-9.358	20.793	1.00	14.09
ATOM	1757	CG	LEU	B	24	57.899	-9.281	19.423	1.00	11.53
ATOM	1758	CD1	LEU	B	24	56.926	-8.735	18.406	1.00	15.08
ATOM	1759	CD2	LEU	B	24	59.138	-8.413	19.473	1.00	10.48
ATOM	1760	N	ALA	B	25	57.023	-9.752	23.861	1.00	27.62
ATOM	1761	CA	ALA	B	25	56.227	-9.729	25.088	1.00	25.88
ATOM	1762	C	ALA	B	25	54.774	-9.540	24.688	1.00	26.10
ATOM	1763	O	ALA	B	25	54.415	-8.575	24.008	1.00	27.81
ATOM	1764	CB	ALA	B	25	56.685	-8.605	25.986	1.00	28.08
ATOM	1765	N	PRO	B	26	53.917	-10.460	25.114	1.00	23.27
ATOM	1766	CA	PRO	B	26	52.484	-10.451	24.815	1.00	24.64
ATOM	1767	C	PRO	B	26	51.754	-9.148	25.104	1.00	23.83
ATOM	1768	O	PRO	B	26	50.875	-8.748	24.357	1.00	24.95
ATOM	1769	CB	PRO	B	26	51.938	-11.597	25.674	1.00	24.53
ATOM	1770	CG	PRO	B	26	53.125	-12.435	25.956	1.00	23.79
ATOM	1771	CD	PRO	B	26	54.217	-11.427	26.171	1.00	21.93
ATOM	1772	N	VAL	B	27	52.124	-8.504	26.203	1.00	23.67
ATOM	1773	CA	VAL	B	27	51.480	-7.284	26.632	1.00	22.63
ATOM	1774	C	VAL	B	27	52.481	-6.182	26.949	1.00	24.97
ATOM	1775	O	VAL	B	27	53.493	-6.405	27.587	1.00	25.09
ATOM	1776	CB	VAL	B	27	50.618	-7.565	27.888	1.00	20.51
ATOM	1777	CG1	VAL	B	27	49.899	-6.304	28.344	1.00	21.17
ATOM	1778	CG2	VAL	B	27	49.632	-8.666	27.601	1.00	13.12
ATOM	1779	N	VAL	B	28	52.171	-4.985	26.497	1.00	28.29
ATOM	1780	CA	VAL	B	28	53.006	-3.829	26.715	1.00	31.74
ATOM	1781	C	VAL	B	28	52.063	-2.639	26.881	1.00	36.29
ATOM	1782	O	VAL	B	28	51.182	-2.396	26.047	1.00	39.00
ATOM	1783	CB	VAL	B	28	53.929	-3.615	25.517	1.00	32.31
ATOM	1784	CG1	VAL	B	28	54.728	-2.343	25.682	1.00	35.24
ATOM	1785	CG2	VAL	B	28	54.856	-4.793	25.397	1.00	35.83
ATOM	1786	N	ASN	B	29	52.233	-1.909	27.975	1.00	38.13
ATOM	1787	CA	ASN	B	29	51.386	-0.763	28.269	1.00	36.17
ATOM	1788	C	ASN	B	29	52.009	0.485	27.693	1.00	33.94
ATOM	1789	O	ASN	B	29	53.199	0.509	27.410	1.00	31.82
ATOM	1790	CB	ASN	B	29	51.209	-0.632	29.786	1.00	38.04
ATOM	1791	CG	ASN	B	29	50.414	-1.796	30.390	1.00	43.72
ATOM	1792	OD1	ASN	B	29	49.207	-1.934	30.156	1.00	46.48
ATOM	1793	ND2	ASN	B	29	51.092	-2.635	31.169	1.00	44.52
ATOM	1794	N	VAL	B	30	51.198	1.516	27.496	1.00	33.33
ATOM	1795	CA	VAL	B	30	51.704	2.771	26.955	1.00	33.75
ATOM	1796	C	VAL	B	30	52.822	3.268	27.878	1.00	35.34

ATOM	1797	O	VAL	B	30	52.794	3.026	29.079	1.00	35.99
ATOM	1798	CB	VAL	B	30	50.582	3.838	26.874	1.00	30.59
ATOM	1799	CG1	VAL	B	30	51.095	5.109	26.195	1.00	24.99
ATOM	1800	CG2	VAL	B	30	49.401	3.269	26.120	1.00	27.71
ATOM	1801	N	GLY	B	31	53.818	3.937	27.312	1.00	37.01
ATOM	1802	CA	GLY	B	31	54.905	4.442	28.124	1.00	36.74
ATOM	1803	C	GLY	B	31	55.881	3.353	28.501	1.00	37.00
ATOM	1804	O	GLY	B	31	57.022	3.647	28.849	1.00	38.76
ATOM	1805	N	GLN	B	32	55.436	2.100	28.432	1.00	35.82
ATOM	1806	CA	GLN	B	32	56.278	0.952	28.763	1.00	36.54
ATOM	1807	C	GLN	B	32	57.136	0.603	27.543	1.00	37.54
ATOM	1808	O	GLN	B	32	57.024	1.239	26.488	1.00	37.70
ATOM	1809	CB	GLN	B	32	55.394	-0.236	29.147	1.00	38.59
ATOM	1810	CG	GLN	B	32	56.075	-1.339	29.932	1.00	43.78
ATOM	1811	CD	GLN	B	32	55.070	-2.294	30.587	1.00	49.89
ATOM	1812	OE1	GLN	B	32	54.409	-3.088	29.914	1.00	48.59
ATOM	1813	NE2	GLN	B	32	54.944	-2.203	31.911	1.00	53.35
ATOM	1814	N	ASN	B	33	57.983	-0.412	27.665	1.00	37.29
ATOM	1815	CA	ASN	B	33	58.840	-0.769	26.545	1.00	35.40
ATOM	1816	C	ASN	B	33	58.765	-2.173	25.982	1.00	36.84
ATOM	1817	O	ASN	B	33	58.567	-3.170	26.693	1.00	33.81
ATOM	1818	CB	ASN	B	33	60.294	-0.476	26.888	1.00	33.02
ATOM	1819	CG	ASN	B	33	60.776	0.801	26.275	1.00	36.41
ATOM	1820	OD1	ASN	B	33	61.903	1.230	26.510	1.00	34.51
ATOM	1821	ND2	ASN	B	33	59.922	1.426	25.472	1.00	41.59
ATOM	1822	N	LEU	B	34	58.928	-2.222	24.668	1.00	38.38
ATOM	1823	CA	LEU	B	34	58.957	-3.469	23.937	1.00	37.19
ATOM	1824	C	LEU	B	34	60.403	-3.518	23.471	1.00	35.97
ATOM	1825	O	LEU	B	34	60.904	-2.585	22.821	1.00	31.21
ATOM	1826	CB	LEU	B	34	58.012	-3.439	22.736	1.00	37.00
ATOM	1827	CG	LEU	B	34	57.807	-4.810	22.098	1.00	38.98
ATOM	1828	CD1	LEU	B	34	57.259	-5.780	23.141	1.00	37.68
ATOM	1829	CD2	LEU	B	34	56.853	-4.697	20.924	1.00	36.51
ATOM	1830	N	VAL	B	35	61.080	-4.591	23.853	1.00	35.17
ATOM	1831	CA	VAL	B	35	62.467	-4.761	23.487	1.00	33.65
ATOM	1832	C	VAL	B	35	62.599	-6.034	22.672	1.00	33.55
ATOM	1833	O	VAL	B	35	62.081	-7.087	23.049	1.00	34.27
ATOM	1834	CB	VAL	B	35	63.362	-4.849	24.738	1.00	31.77
ATOM	1835	CG1	VAL	B	35	64.822	-4.799	24.333	1.00	29.02
ATOM	1836	CG2	VAL	B	35	63.046	-3.703	25.677	1.00	26.34
ATOM	1837	N	VAL	B	36	63.265	-5.921	21.529	1.00	31.59
ATOM	1838	CA	VAL	B	36	63.480	-7.069	20.670	1.00	27.98
ATOM	1839	C	VAL	B	36	64.970	-7.175	20.633	1.00	26.53
ATOM	1840	O	VAL	B	36	65.624	-6.463	19.888	1.00	27.10
ATOM	1841	CB	VAL	B	36	62.979	-6.832	19.243	1.00	27.45
ATOM	1842	CG1	VAL	B	36	62.562	-8.158	18.628	1.00	28.97
ATOM	1843	CG2	VAL	B	36	61.825	-5.859	19.241	1.00	25.78
ATOM	1844	N	ASP	B	37	65.517	-8.048	21.460	1.00	26.73
ATOM	1845	CA	ASP	B	37	66.958	-8.192	21.505	1.00	31.00
ATOM	1846	C	ASP	B	37	67.411	-9.192	20.459	1.00	30.60
ATOM	1847	O	ASP	B	37	67.277	-10.409	20.644	1.00	29.46
ATOM	1848	CB	ASP	B	37	67.400	-8.633	22.899	1.00	33.19
ATOM	1849	CG	ASP	B	37	68.868	-8.367	23.148	1.00	39.91
ATOM	1850	OD1	ASP	B	37	69.464	-7.560	22.387	1.00	39.47
ATOM	1851	OD2	ASP	B	37	69.417	-8.958	24.108	1.00	44.56
ATOM	1852	N	LEU	B	38	67.951	-8.672	19.360	1.00	28.42
ATOM	1853	CA	LEU	B	38	68.397	-9.519	18.262	1.00	31.22
ATOM	1854	C	LEU	B	38	69.769	-10.148	18.467	1.00	35.19
ATOM	1855	O	LEU	B	38	70.140	-11.106	17.765	1.00	34.65
ATOM	1856	CB	LEU	B	38	68.367	-8.722	16.968	1.00	29.19
ATOM	1857	CG	LEU	B	38	66.923	-8.476	16.559	1.00	25.70
ATOM	1858	CD1	LEU	B	38	66.830	-7.274	15.669	1.00	29.42

ATOM	1859	CD2	LEU	B	38	66.396	-9.709	15.877	1.00	26.19
ATOM	1860	N	SER	B	39	70.505	-9.602	19.440	1.00	37.22
ATOM	1861	CA	SER	B	39	71.833	-10.073	19.818	1.00	32.38
ATOM	1862	C	SER	B	39	71.688	-11.483	20.364	1.00	31.29
ATOM	1863	O	SER	B	39	72.643	-12.063	20.883	1.00	31.72
ATOM	1864	CB	SER	B	39	72.402	-9.186	20.910	1.00	32.09
ATOM	1865	OG	SER	B	39	71.605	-9.288	22.076	1.00	23.78
ATOM	1866	N	THR	B	40	70.480	-12.019	20.244	1.00	28.48
ATOM	1867	CA	THR	B	40	70.177	-13.354	20.705	1.00	30.79
ATOM	1868	C	THR	B	40	69.866	-14.260	19.540	1.00	32.54
ATOM	1869	O	THR	B	40	69.844	-15.489	19.690	1.00	33.58
ATOM	1870	CB	THR	B	40	68.958	-13.369	21.594	1.00	29.02
ATOM	1871	OG1	THR	B	40	69.080	-12.347	22.575	1.00	30.50
ATOM	1872	CG2	THR	B	40	68.855	-14.686	22.289	1.00	30.68
ATOM	1873	N	GLN	B	41	69.630	-13.660	18.375	1.00	32.58
ATOM	1874	CA	GLN	B	41	69.277	-14.450	17.212	1.00	29.38
ATOM	1875	C	GLN	B	41	70.064	-14.206	15.949	1.00	29.38
ATOM	1876	O	GLN	B	41	69.783	-14.819	14.918	1.00	31.57
ATOM	1877	CB	GLN	B	41	67.802	-14.274	16.942	1.00	24.90
ATOM	1878	CG	GLN	B	41	66.991	-14.590	18.147	1.00	23.51
ATOM	1879	CD	GLN	B	41	65.675	-15.160	17.771	1.00	28.72
ATOM	1880	OE1	GLN	B	41	64.829	-14.457	17.230	1.00	35.23
ATOM	1881	NE2	GLN	B	41	65.483	-16.453	18.030	1.00	30.48
ATOM	1882	N	ILE	B	42	71.052	-13.328	16.011	1.00	26.96
ATOM	1883	CA	ILE	B	42	71.852	-13.070	14.836	1.00	28.39
ATOM	1884	C	ILE	B	42	73.317	-13.088	15.182	1.00	32.17
ATOM	1885	O	ILE	B	42	73.804	-12.228	15.920	1.00	34.23
ATOM	1886	CB	ILE	B	42	71.524	-11.707	14.215	1.00	28.64
ATOM	1887	CG1	ILE	B	42	70.056	-11.651	13.834	1.00	28.18
ATOM	1888	CG2	ILE	B	42	72.374	-11.472	12.981	1.00	26.54
ATOM	1889	CD1	ILE	B	42	69.667	-10.337	13.268	1.00	30.22
ATOM	1890	N	PHE	B	43	74.029	-14.067	14.642	1.00	34.23
ATOM	1891	CA	PHE	B	43	75.454	-14.159	14.889	1.00	35.33
ATOM	1892	C	PHE	B	43	76.280	-14.082	13.617	1.00	37.42
ATOM	1893	O	PHE	B	43	75.875	-14.560	12.556	1.00	41.31
ATOM	1894	CB	PHE	B	43	75.741	-15.444	15.642	1.00	35.11
ATOM	1895	CG	PHE	B	43	74.991	-15.538	16.913	1.00	36.97
ATOM	1896	CD1	PHE	B	43	73.668	-15.969	16.920	1.00	38.14
ATOM	1897	CD2	PHE	B	43	75.556	-15.073	18.092	1.00	35.51
ATOM	1898	CE1	PHE	B	43	72.911	-15.926	18.094	1.00	40.63
ATOM	1899	CE2	PHE	B	43	74.813	-15.022	19.267	1.00	39.18
ATOM	1900	CZ	PHE	B	43	73.486	-15.446	19.275	1.00	35.34
ATOM	1901	N	CYS	B	44	77.440	-13.457	13.725	1.00	37.38
ATOM	1902	CA	CYS	B	44	78.347	-13.330	12.594	1.00	38.83
ATOM	1903	C	CYS	B	44	79.752	-13.693	13.058	1.00	38.78
ATOM	1904	O	CYS	B	44	80.044	-13.674	14.265	1.00	41.00
ATOM	1905	CB	CYS	B	44	78.346	-11.898	12.073	1.00	39.51
ATOM	1906	SG	CYS	B	44	76.735	-11.270	11.507	1.00	42.89
ATOM	1907	N	HIS	B	45	80.623	-14.027	12.112	1.00	34.97
ATOM	1908	CA	HIS	B	45	81.994	-14.373	12.460	1.00	33.30
ATOM	1909	C	HIS	B	45	82.907	-13.896	11.372	1.00	32.79
ATOM	1910	O	HIS	B	45	82.480	-13.704	10.243	1.00	36.47
ATOM	1911	CB	HIS	B	45	82.176	-15.884	12.613	1.00	30.83
ATOM	1912	CG	HIS	B	45	82.040	-16.636	11.330	1.00	32.35
ATOM	1913	ND1	HIS	B	45	80.919	-17.372	11.015	1.00	37.74
ATOM	1914	CD2	HIS	B	45	82.842	-16.691	10.244	1.00	33.63
ATOM	1915	CE1	HIS	B	45	81.033	-17.840	9.786	1.00	34.47
ATOM	1916	NE2	HIS	B	45	82.189	-17.439	9.295	1.00	32.60
ATOM	1917	N	ASN	B	46	84.170	-13.712	11.723	1.00	32.81
ATOM	1918	CA	ASN	B	46	85.197	-13.285	10.790	1.00	32.63
ATOM	1919	C	ASN	B	46	85.811	-14.570	10.206	1.00	33.11
ATOM	1920	O	ASN	B	46	86.079	-15.500	10.939	1.00	32.24

ATOM	1921	CB	ASN	B	46	86.236	-12.489	11.560	1.00	31.74
ATOM	1922	CG	ASN	B	46	87.248	-11.843	10.664	1.00	33.58
ATOM	1923	OD1	ASN	B	46	87.861	-12.497	9.823	1.00	32.79
ATOM	1924	ND2	ASN	B	46	87.440	-10.548	10.841	1.00	32.12
ATOM	1925	N	ASP	B	47	86.031	-14.623	8.899	1.00	36.57
ATOM	1926	CA	ASP	B	47	86.572	-15.827	8.252	1.00	42.04
ATOM	1927	C	ASP	B	47	88.099	-16.031	8.239	1.00	45.03
ATOM	1928	O	ASP	B	47	88.590	-17.149	8.402	1.00	45.98
ATOM	1929	CB	ASP	B	47	86.054	-15.922	6.806	1.00	42.81
ATOM	1930	CG	ASP	B	47	84.645	-16.509	6.714	1.00	43.28
ATOM	1931	OD1	ASP	B	47	84.362	-17.520	7.397	1.00	41.18
ATOM	1932	OD2	ASP	B	47	83.827	-15.973	5.938	1.00	40.77
ATOM	1933	N	TYR	B	48	88.850	-14.967	8.010	1.00	46.29
ATOM	1934	CA	TYR	B	48	90.292	-15.077	7.997	1.00	48.38
ATOM	1935	C	TYR	B	48	90.777	-14.021	8.972	1.00	49.92
ATOM	1936	O	TYR	B	48	91.485	-13.075	8.595	1.00	49.47
ATOM	1937	CB	TYR	B	48	90.825	-14.822	6.591	1.00	52.27
ATOM	1938	CG	TYR	B	48	90.223	-15.733	5.533	1.00	57.48
ATOM	1939	CD1	TYR	B	48	90.614	-17.074	5.426	1.00	57.87
ATOM	1940	CD2	TYR	B	48	89.261	-15.256	4.636	1.00	59.39
ATOM	1941	CE1	TYR	B	48	90.061	-17.916	4.450	1.00	56.41
ATOM	1942	CE2	TYR	B	48	88.701	-16.090	3.657	1.00	57.63
ATOM	1943	CZ	TYR	B	48	89.104	-17.415	3.572	1.00	57.26
ATOM	1944	OH	TYR	B	48	88.530	-18.236	2.629	1.00	51.82
ATOM	1945	N	PRO	B	49	90.393	-14.176	10.257	1.00	50.52
ATOM	1946	CA	PRO	B	49	90.737	-13.275	11.361	1.00	49.81
ATOM	1947	C	PRO	B	49	92.212	-12.950	11.522	1.00	51.27
ATOM	1948	O	PRO	B	49	92.552	-11.792	11.711	1.00	52.42
ATOM	1949	CB	PRO	B	49	90.155	-13.983	12.581	1.00	45.79
ATOM	1950	CG	PRO	B	49	90.228	-15.402	12.211	1.00	48.85
ATOM	1951	CD	PRO	B	49	89.751	-15.394	10.781	1.00	48.13
ATOM	1952	N	GLU	B	50	93.081	-13.958	11.438	1.00	54.13
ATOM	1953	CA	GLU	B	50	94.532	-13.757	11.592	1.00	55.64
ATOM	1954	C	GLU	B	50	95.155	-12.655	10.735	1.00	53.53
ATOM	1955	O	GLU	B	50	96.170	-12.079	11.120	1.00	53.10
ATOM	1956	CB	GLU	B	50	95.303	-15.051	11.316	1.00	57.59
ATOM	1957	CG	GLU	B	50	95.034	-16.166	12.296	1.00	64.83
ATOM	1958	CD	GLU	B	50	93.660	-16.765	12.111	1.00	69.77
ATOM	1959	OE1	GLU	B	50	93.326	-17.118	10.959	1.00	71.61
ATOM	1960	OE2	GLU	B	50	92.917	-16.887	13.110	1.00	73.82
ATOM	1961	N	THR	B	51	94.566	-12.366	9.582	1.00	50.87
ATOM	1962	CA	THR	B	51	95.114	-11.331	8.715	1.00	50.71
ATOM	1963	C	THR	B	51	94.122	-10.271	8.266	1.00	48.56
ATOM	1964	O	THR	B	51	94.516	-9.230	7.743	1.00	47.92
ATOM	1965	CB	THR	B	51	95.745	-11.940	7.441	1.00	53.90
ATOM	1966	OG1	THR	B	51	94.902	-12.985	6.925	1.00	53.23
ATOM	1967	CG2	THR	B	51	97.127	-12.478	7.752	1.00	57.33
ATOM	1968	N	ILE	B	52	92.838	-10.531	8.474	1.00	45.64
ATOM	1969	CA	ILE	B	52	91.822	-9.594	8.036	1.00	40.10
ATOM	1970	C	ILE	B	52	90.921	-9.136	9.150	1.00	37.68
ATOM	1971	O	ILE	B	52	90.469	-9.942	9.951	1.00	36.43
ATOM	1972	CB	ILE	B	52	90.960	-10.233	6.935	1.00	40.90
ATOM	1973	CG1	ILE	B	52	91.876	-10.755	5.829	1.00	40.18
ATOM	1974	CG2	ILE	B	52	89.949	-9.228	6.397	1.00	37.45
ATOM	1975	CD1	ILE	B	52	91.154	-11.220	4.616	1.00	48.08
ATOM	1976	N	THR	B	53	90.665	-7.835	9.196	1.00	37.20
ATOM	1977	CA	THR	B	53	89.772	-7.269	10.202	1.00	38.03
ATOM	1978	C	THR	B	53	88.425	-6.895	9.584	1.00	37.09
ATOM	1979	O	THR	B	53	88.367	-6.263	8.521	1.00	37.83
ATOM	1980	CB	THR	B	53	90.358	-6.010	10.844	1.00	40.84
ATOM	1981	OG1	THR	B	53	91.530	-6.348	11.592	1.00	42.29
ATOM	1982	CG2	THR	B	53	89.339	-5.382	11.774	1.00	44.56

ATOM	1983	N	ASP	B	54	87.348	-7.278	10.265	1.00	35.72
ATOM	1984	CA	ASP	B	54	85.989	-7.001	9.795	1.00	35.17
ATOM	1985	C	ASP	B	54	85.242	-5.878	10.517	1.00	33.80
ATOM	1986	O	ASP	B	54	85.174	-5.848	11.746	1.00	33.40
ATOM	1987	CB	ASP	B	54	85.139	-8.267	9.877	1.00	34.55
ATOM	1988	CG	ASP	B	54	85.149	-9.058	8.594	1.00	35.71
ATOM	1989	OD1	ASP	B	54	85.098	-8.422	7.526	1.00	38.54
ATOM	1990	OD2	ASP	B	54	85.186	-10.307	8.650	1.00	35.03
ATOM	1991	N	TYR	B	55	84.665	-4.972	9.733	1.00	33.20
ATOM	1992	CA	TYR	B	55	83.885	-3.847	10.261	1.00	33.24
ATOM	1993	C	TYR	B	55	82.392	-4.013	9.951	1.00	30.45
ATOM	1994	O	TYR	B	55	81.986	-4.001	8.789	1.00	32.64
ATOM	1995	CB	TYR	B	55	84.383	-2.537	9.665	1.00	34.08
ATOM	1996	CG	TYR	B	55	85.870	-2.346	9.820	1.00	36.75
ATOM	1997	CD1	TYR	B	55	86.441	-2.161	11.078	1.00	30.32
ATOM	1998	CD2	TYR	B	55	86.707	-2.357	8.698	1.00	38.97
ATOM	1999	CE1	TYR	B	55	87.807	-1.988	11.215	1.00	38.08
ATOM	2000	CE2	TYR	B	55	88.074	-2.188	8.820	1.00	39.97
ATOM	2001	CZ	TYR	B	55	88.622	-2.000	10.080	1.00	40.86
ATOM	2002	OH	TYR	B	55	89.982	-1.819	10.196	1.00	40.79
ATOM	2003	N	VAL	B	56	81.588	-4.156	10.999	1.00	24.80
ATOM	2004	CA	VAL	B	56	80.160	-4.351	10.863	1.00	22.30
ATOM	2005	C	VAL	B	56	79.333	-3.168	11.362	1.00	24.55
ATOM	2006	O	VAL	B	56	79.546	-2.685	12.461	1.00	23.79
ATOM	2007	CB	VAL	B	56	79.750	-5.573	11.641	1.00	20.83
ATOM	2008	CG1	VAL	B	56	78.250	-5.747	11.585	1.00	20.12
ATOM	2009	CG2	VAL	B	56	80.474	-6.769	11.093	1.00	18.22
ATOM	2010	N	THR	B	57	78.372	-2.717	10.556	1.00	26.47
ATOM	2011	CA	THR	B	57	77.506	-1.597	10.936	1.00	25.37
ATOM	2012	C	THR	B	57	76.020	-1.898	10.757	1.00	27.42
ATOM	2013	O	THR	B	57	75.636	-2.923	10.176	1.00	26.36
ATOM	2014	CB	THR	B	57	77.757	-0.380	10.070	1.00	22.78
ATOM	2015	OG1	THR	B	57	77.392	-0.689	8.722	1.00	24.12
ATOM	2016	CG2	THR	B	57	79.199	0.010	10.107	1.00	26.57
ATOM	2017	N	LEU	B	58	75.192	-0.987	11.272	1.00	27.02
ATOM	2018	CA	LEU	B	58	73.746	-1.071	11.102	1.00	25.75
ATOM	2019	C	LEU	B	58	73.488	-0.037	9.987	1.00	27.19
ATOM	2020	O	LEU	B	58	73.286	1.152	10.241	1.00	26.49
ATOM	2021	CB	LEU	B	58	73.005	-0.683	12.383	1.00	24.87
ATOM	2022	CG	LEU	B	58	71.474	-0.688	12.244	1.00	25.01
ATOM	2023	CD1	LEU	B	58	70.998	-2.103	11.889	1.00	26.08
ATOM	2024	CD2	LEU	B	58	70.819	-0.196	13.530	1.00	19.96
ATOM	2025	N	GLN	B	59	73.536	-0.520	8.749	1.00	27.39
ATOM	2026	CA	GLN	B	59	73.368	0.286	7.553	1.00	27.68
ATOM	2027	C	GLN	B	59	72.065	1.051	7.553	1.00	29.19
ATOM	2028	O	GLN	B	59	72.044	2.258	7.309	1.00	28.41
ATOM	2029	CB	GLN	B	59	73.425	-0.630	6.334	1.00	32.60
ATOM	2030	CG	GLN	B	59	74.329	-0.168	5.209	1.00	36.08
ATOM	2031	CD	GLN	B	59	73.750	0.983	4.440	1.00	40.96
ATOM	2032	OE1	GLN	B	59	73.244	1.940	5.023	1.00	43.60
ATOM	2033	NE2	GLN	B	59	73.825	0.905	3.120	1.00	42.53
ATOM	2034	N	ARG	B	60	70.973	0.344	7.829	1.00	30.35
ATOM	2035	CA	ARG	B	60	69.642	0.957	7.857	1.00	30.97
ATOM	2036	C	ARG	B	60	68.802	0.150	8.831	1.00	30.79
ATOM	2037	O	ARG	B	60	69.196	-0.950	9.213	1.00	34.40
ATOM	2038	CB	ARG	B	60	69.007	0.909	6.458	1.00	32.68
ATOM	2039	CG	ARG	B	60	67.857	1.876	6.209	1.00	33.70
ATOM	2040	CD	ARG	B	60	67.316	1.757	4.777	1.00	38.65
ATOM	2041	NE	ARG	B	60	68.328	1.352	3.787	1.00	51.11
ATOM	2042	CZ	ARG	B	60	69.392	2.071	3.409	1.00	53.99
ATOM	2043	NH1	ARG	B	60	69.627	3.277	3.925	1.00	54.76
ATOM	2044	NH2	ARG	B	60	70.237	1.577	2.507	1.00	51.13

ATOM	2045	N	GLY	B	61	67.654	0.692	9.228	1.00	29.15
ATOM	2046	CA	GLY	B	61	66.766	0.004	10.152	1.00	25.24
ATOM	2047	C	GLY	B	61	65.391	0.546	9.862	1.00	27.10
ATOM	2048	O	GLY	B	61	65.119	1.707	10.141	1.00	28.77
ATOM	2049	N	SER	B	62	64.519	-0.282	9.299	1.00	29.24
ATOM	2050	CA	SER	B	62	63.176	0.170	8.932	1.00	28.30
ATOM	2051	C	SER	B	62	62.061	-0.497	9.683	1.00	26.57
ATOM	2052	O	SER	B	62	62.162	-1.675	10.026	1.00	23.80
ATOM	2053	CB	SER	B	62	62.936	-0.038	7.434	1.00	28.40
ATOM	2054	OG	SER	B	62	63.918	0.634	6.664	1.00	27.22
ATOM	2055	N	ALA	B	63	60.983	0.263	9.893	1.00	26.76
ATOM	2056	CA	ALA	B	63	59.793	-0.230	10.602	1.00	27.64
ATOM	2057	C	ALA	B	63	58.674	-0.615	9.637	1.00	27.52
ATOM	2058	O	ALA	B	63	58.534	-0.038	8.550	1.00	27.03
ATOM	2059	CB	ALA	B	63	59.289	0.819	11.561	1.00	29.38
ATOM	2060	N	TYR	B	64	57.872	-1.584	10.050	1.00	25.06
ATOM	2061	CA	TYR	B	64	56.791	-2.068	9.226	1.00	22.76
ATOM	2062	C	TYR	B	64	55.582	-2.389	10.057	1.00	22.95
ATOM	2063	O	TYR	B	64	55.697	-2.674	11.240	1.00	22.26
ATOM	2064	CB	TYR	B	64	57.216	-3.342	8.483	1.00	25.17
ATOM	2065	CG	TYR	B	64	58.271	-3.104	7.443	1.00	19.93
ATOM	2066	CD1	TYR	B	64	59.601	-2.953	7.802	1.00	21.91
ATOM	2067	CD2	TYR	B	64	57.923	-2.914	6.108	1.00	15.19
ATOM	2068	CE1	TYR	B	64	60.558	-2.595	6.853	1.00	19.37
ATOM	2069	CE2	TYR	B	64	58.856	-2.568	5.170	1.00	11.80
ATOM	2070	CZ	TYR	B	64	60.173	-2.402	5.548	1.00	15.71
ATOM	2071	OH	TYR	B	64	61.101	-1.999	4.627	1.00	25.34
ATOM	2072	N	GLY	B	65	54.424	-2.361	9.405	1.00	25.81
ATOM	2073	CA	GLY	B	65	53.162	-2.683	10.049	1.00	24.26
ATOM	2074	C	GLY	B	65	52.970	-2.042	11.396	1.00	23.86
ATOM	2075	O	GLY	B	65	53.272	-0.861	11.582	1.00	25.84
ATOM	2076	N	GLY	B	66	52.471	-2.830	12.340	1.00	21.33
ATOM	2077	CA	GLY	B	66	52.236	-2.320	13.671	1.00	21.20
ATOM	2078	C	GLY	B	66	53.311	-1.366	14.145	1.00	22.86
ATOM	2079	O	GLY	B	66	53.076	-0.176	14.298	1.00	21.27
ATOM	2080	N	VAL	B	67	54.506	-1.890	14.371	1.00	25.88
ATOM	2081	CA	VAL	B	67	55.610	-1.087	14.865	1.00	26.94
ATOM	2082	C	VAL	B	67	55.705	0.302	14.258	1.00	28.60
ATOM	2083	O	VAL	B	67	56.127	1.255	14.928	1.00	30.72
ATOM	2084	CB	VAL	B	67	56.939	-1.818	14.636	1.00	25.83
ATOM	2085	CG1	VAL	B	67	58.119	-0.856	14.847	1.00	26.49
ATOM	2086	CG2	VAL	B	67	57.031	-2.999	15.589	1.00	24.42
ATOM	2087	N	LEU	B	68	55.292	0.407	13.000	1.00	25.69
ATOM	2088	CA	LEU	B	68	55.370	1.648	12.256	1.00	24.93
ATOM	2089	C	LEU	B	68	54.295	2.689	12.548	1.00	27.88
ATOM	2090	O	LEU	B	68	54.443	3.878	12.244	1.00	27.37
ATOM	2091	CB	LEU	B	68	55.367	1.302	10.780	1.00	22.71
ATOM	2092	CG	LEU	B	68	55.642	2.418	9.788	1.00	15.14
ATOM	2093	CD1	LEU	B	68	56.948	3.112	10.121	1.00	11.28
ATOM	2094	CD2	LEU	B	68	55.682	1.809	8.413	1.00	12.68
ATOM	2095	N	SER	B	69	53.202	2.242	13.139	1.00	31.44
ATOM	2096	CA	SER	B	69	52.116	3.150	13.449	1.00	33.87
ATOM	2097	C	SER	B	69	51.872	3.259	14.935	1.00	34.08
ATOM	2098	O	SER	B	69	51.509	4.315	15.427	1.00	37.54
ATOM	2099	CB	SER	B	69	50.837	2.669	12.789	1.00	33.51
ATOM	2100	OG	SER	B	69	50.436	1.438	13.354	1.00	36.46
ATOM	2101	N	ASN	B	70	52.081	2.164	15.650	1.00	34.45
ATOM	2102	CA	ASN	B	70	51.838	2.146	17.076	1.00	34.37
ATOM	2103	C	ASN	B	70	53.051	2.377	17.957	1.00	35.63
ATOM	2104	O	ASN	B	70	52.933	2.354	19.185	1.00	35.89
ATOM	2105	CB	ASN	B	70	51.177	0.826	17.460	1.00	35.78
ATOM	2106	CG	ASN	B	70	49.892	0.582	16.695	1.00	36.83

ATOM	2107	OD1	ASN	B	70	49.110	1.498	16.491	1.00	41.18
ATOM	2108	ND2	ASN	B	70	49.665	-0.656	16.278	1.00	38.25
ATOM	2109	N	PHE	B	71	54.216	2.603	17.360	1.00	34.78
ATOM	2110	CA	PHE	B	71	55.394	2.813	18.188	1.00	32.43
ATOM	2111	C	PHE	B	71	56.351	3.934	17.805	1.00	33.30
ATOM	2112	O	PHE	B	71	56.366	4.442	16.690	1.00	34.23
ATOM	2113	CB	PHE	B	71	56.193	1.516	18.310	1.00	29.29
ATOM	2114	CG	PHE	B	71	55.436	0.386	18.939	1.00	23.06
ATOM	2115	CD1	PHE	B	71	54.398	-0.243	18.256	1.00	25.14
ATOM	2116	CD2	PHE	B	71	55.774	-0.064	20.202	1.00	18.93
ATOM	2117	CE1	PHE	B	71	53.707	-1.311	18.829	1.00	25.86
ATOM	2118	CE2	PHE	B	71	55.096	-1.132	20.789	1.00	21.05
ATOM	2119	CZ	PHE	B	71	54.058	-1.757	20.102	1.00	24.04
ATOM	2120	N	SER	B	72	57.158	4.300	18.781	1.00	35.13
ATOM	2121	CA	SER	B	72	58.162	5.327	18.646	1.00	39.15
ATOM	2122	C	SER	B	72	59.345	4.734	19.403	1.00	40.19
ATOM	2123	O	SER	B	72	59.219	4.398	20.582	1.00	40.88
ATOM	2124	CB	SER	B	72	57.672	6.603	19.323	1.00	38.55
ATOM	2125	OG	SER	B	72	58.739	7.504	19.570	1.00	48.46
ATOM	2126	N	GLY	B	73	60.488	4.586	18.744	1.00	39.62
ATOM	2127	CA	GLY	B	73	61.607	3.998	19.455	1.00	41.10
ATOM	2128	C	GLY	B	73	63.022	4.330	19.030	1.00	41.00
ATOM	2129	O	GLY	B	73	63.280	5.214	18.207	1.00	38.43
ATOM	2130	N	THR	B	74	63.948	3.593	19.625	1.00	40.78
ATOM	2131	CA	THR	B	74	65.359	3.766	19.350	1.00	40.58
ATOM	2132	C	THR	B	74	65.960	2.411	19.019	1.00	41.45
ATOM	2133	O	THR	B	74	65.373	1.357	19.314	1.00	38.91
ATOM	2134	CB	THR	B	74	66.131	4.326	20.590	1.00	39.60
ATOM	2135	OG1	THR	B	74	65.999	3.408	21.693	1.00	35.56
ATOM	2136	CG2	THR	B	74	65.605	5.698	20.987	1.00	29.56
ATOM	2137	N	VAL	B	75	67.132	2.455	18.391	1.00	41.29
ATOM	2138	CA	VAL	B	75	67.869	1.246	18.065	1.00	40.89
ATOM	2139	C	VAL	B	75	69.181	1.372	18.833	1.00	40.73
ATOM	2140	O	VAL	B	75	69.975	2.282	18.589	1.00	37.98
ATOM	2141	CB	VAL	B	75	68.135	1.098	16.530	1.00	40.28
ATOM	2142	CG1	VAL	B	75	68.993	2.244	16.011	1.00	37.73
ATOM	2143	CG2	VAL	B	75	68.790	-0.247	16.253	1.00	36.46
ATOM	2144	N	LYS	B	76	69.380	0.484	19.801	1.00	41.44
ATOM	2145	CA	LYS	B	76	70.596	0.509	20.594	1.00	43.46
ATOM	2146	C	LYS	B	76	71.634	-0.387	19.916	1.00	40.68
ATOM	2147	O	LYS	B	76	71.528	-1.608	19.979	1.00	40.83
ATOM	2148	CB	LYS	B	76	70.300	0.009	22.006	1.00	46.58
ATOM	2149	CG	LYS	B	76	71.468	0.156	22.968	1.00	51.94
ATOM	2150	CD	LYS	B	76	71.195	-0.586	24.278	1.00	57.06
ATOM	2151	CE	LYS	B	76	72.336	-0.413	25.289	1.00	57.73
ATOM	2152	NZ	LYS	B	76	72.057	-1.120	26.575	1.00	54.23
ATOM	2153	N	TYR	B	77	72.621	0.221	19.260	1.00	37.31
ATOM	2154	CA	TYR	B	77	73.656	-0.540	18.567	1.00	36.49
ATOM	2155	C	TYR	B	77	74.998	-0.504	19.256	1.00	38.61
ATOM	2156	O	TYR	B	77	75.779	0.429	19.046	1.00	38.96
ATOM	2157	CB	TYR	B	77	73.845	-0.035	17.132	1.00	35.19
ATOM	2158	CG	TYR	B	77	74.806	-0.860	16.291	1.00	33.43
ATOM	2159	CD1	TYR	B	77	74.664	-2.246	16.184	1.00	32.56
ATOM	2160	CD2	TYR	B	77	75.828	-0.252	15.563	1.00	32.87
ATOM	2161	CE1	TYR	B	77	75.511	-2.999	15.369	1.00	29.64
ATOM	2162	CE2	TYR	B	77	76.684	-0.999	14.743	1.00	30.05
ATOM	2163	CZ	TYR	B	77	76.517	-2.368	14.648	1.00	29.06
ATOM	2164	OH	TYR	B	77	77.328	-3.101	13.807	1.00	27.70
ATOM	2165	N	SER	B	78	75.266	-1.521	20.075	1.00	40.20
ATOM	2166	CA	SER	B	78	76.544	-1.633	20.769	1.00	41.02
ATOM	2167	C	SER	B	78	76.736	-0.504	21.777	1.00	41.26
ATOM	2168	O	SER	B	78	77.610	0.348	21.627	1.00	41.70

ATOM	2169	CB	SER	B	78	77.679	-1.638	19.728	1.00	40.89
ATOM	2170	OG	SER	B	78	78.925	-2.003	20.281	1.00	45.52
ATOM	2171	N	GLY	B	79	75.887	-0.481	22.791	1.00	42.89
ATOM	2172	CA	GLY	B	79	76.015	0.535	23.823	1.00	46.50
ATOM	2173	C	GLY	B	79	75.681	1.964	23.447	1.00	48.08
ATOM	2174	O	GLY	B	79	75.948	2.897	24.209	1.00	48.44
ATOM	2175	N	SER	B	80	75.106	2.150	22.270	1.00	47.77
ATOM	2176	CA	SER	B	80	74.716	3.478	21.844	1.00	46.72
ATOM	2177	C	SER	B	80	73.343	3.367	21.194	1.00	46.50
ATOM	2178	O	SER	B	80	73.021	2.371	20.544	1.00	48.40
ATOM	2179	CB	SER	B	80	75.740	4.021	20.867	1.00	47.57
ATOM	2180	OG	SER	B	80	77.031	3.790	21.394	1.00	55.98
ATOM	2181	N	SER	B	81	72.514	4.375	21.397	1.00	44.24
ATOM	2182	CA	SER	B	81	71.197	4.348	20.809	1.00	39.78
ATOM	2183	C	SER	B	81	71.048	5.443	19.785	1.00	37.44
ATOM	2184	O	SER	B	81	71.716	6.464	19.839	1.00	36.63
ATOM	2185	CB	SER	B	81	70.122	4.471	21.889	1.00	41.47
ATOM	2186	OG	SER	B	81	69.943	3.234	22.565	1.00	42.36
ATOM	2187	N	TYR	B	82	70.190	5.180	18.816	1.00	38.24
ATOM	2188	CA	TYR	B	82	69.898	6.117	17.744	1.00	36.60
ATOM	2189	C	TYR	B	82	68.410	5.939	17.429	1.00	36.30
ATOM	2190	O	TYR	B	82	67.766	4.985	17.880	1.00	37.33
ATOM	2191	CB	TYR	B	82	70.710	5.791	16.493	1.00	34.35
ATOM	2192	CG	TYR	B	82	72.155	5.467	16.730	1.00	36.74
ATOM	2193	CD1	TYR	B	82	72.528	4.308	17.408	1.00	38.59
ATOM	2194	CD2	TYR	B	82	73.157	6.282	16.219	1.00	38.80
ATOM	2195	CE1	TYR	B	82	73.864	3.962	17.569	1.00	40.67
ATOM	2196	CE2	TYR	B	82	74.503	5.948	16.371	1.00	41.91
ATOM	2197	CZ	TYR	B	82	74.849	4.785	17.044	1.00	43.58
ATOM	2198	OH	TYR	B	82	76.171	4.433	17.171	1.00	43.69
ATOM	2199	N	PRO	B	83	67.849	6.857	16.656	1.00	33.26
ATOM	2200	CA	PRO	B	83	66.443	6.828	16.261	1.00	36.05
ATOM	2201	C	PRO	B	83	66.071	5.579	15.443	1.00	39.10
ATOM	2202	O	PRO	B	83	66.899	5.056	14.693	1.00	41.89
ATOM	2203	CB	PRO	B	83	66.299	8.095	15.427	1.00	36.01
ATOM	2204	CG	PRO	B	83	67.365	8.992	15.961	1.00	39.58
ATOM	2205	CD	PRO	B	83	68.517	8.069	16.166	1.00	37.11
ATOM	2206	N	PHE	B	84	64.831	5.110	15.581	1.00	38.03
ATOM	2207	CA	PHE	B	84	64.364	3.965	14.815	1.00	36.55
ATOM	2208	C	PHE	B	84	62.913	4.193	14.428	1.00	39.04
ATOM	2209	O	PHE	B	84	62.058	4.309	15.302	1.00	40.98
ATOM	2210	CB	PHE	B	84	64.475	2.679	15.627	1.00	36.61
ATOM	2211	CG	PHE	B	84	64.017	1.455	14.877	1.00	36.45
ATOM	2212	CD1	PHE	B	84	64.775	0.940	13.832	1.00	36.05
ATOM	2213	CD2	PHE	B	84	62.804	0.847	15.178	1.00	36.64
ATOM	2214	CE1	PHE	B	84	64.329	-0.162	13.089	1.00	34.26
ATOM	2215	CE2	PHE	B	84	62.350	-0.258	14.437	1.00	35.07
ATOM	2216	CZ	PHE	B	84	63.118	-0.758	13.394	1.00	32.28
ATOM	2217	N	PRO	B	85	62.600	4.247	13.112	1.00	41.51
ATOM	2218	CA	PRO	B	85	63.465	4.114	11.935	1.00	41.85
ATOM	2219	C	PRO	B	85	64.749	4.891	12.003	1.00	42.64
ATOM	2220	O	PRO	B	85	64.817	5.948	12.612	1.00	44.83
ATOM	2221	CB	PRO	B	85	62.566	4.574	10.807	1.00	37.67
ATOM	2222	CG	PRO	B	85	61.290	3.939	11.202	1.00	39.17
ATOM	2223	CD	PRO	B	85	61.192	4.305	12.676	1.00	40.60
ATOM	2224	N	THR	B	86	65.767	4.339	11.365	1.00	42.42
ATOM	2225	CA	THR	B	86	67.087	4.925	11.356	1.00	43.82
ATOM	2226	C	THR	B	86	67.205	6.024	10.325	1.00	45.15
ATOM	2227	O	THR	B	86	66.542	5.985	9.299	1.00	46.86
ATOM	2228	CB	THR	B	86	68.118	3.855	11.036	1.00	44.01
ATOM	2229	OG1	THR	B	86	67.929	3.414	9.686	1.00	40.62
ATOM	2230	CG2	THR	B	86	67.963	2.669	11.988	1.00	40.07

ATOM	2231	N	THR	B	87	68.063	6.999	10.594	1.00	45.46
ATOM	2232	CA	THR	B	87	68.256	8.088	9.657	1.00	47.03
ATOM	2233	C	THR	B	87	69.698	8.212	9.182	1.00	48.20
ATOM	2234	O	THR	B	87	69.974	8.964	8.242	1.00	47.73
ATOM	2235	CB	THR	B	87	67.811	9.415	10.259	1.00	46.85
ATOM	2236	OG1	THR	B	87	67.888	9.336	11.683	1.00	53.60
ATOM	2237	CG2	THR	B	87	66.397	9.727	9.855	1.00	46.88
ATOM	2238	N	SER	B	88	70.611	7.474	9.820	1.00	49.01
ATOM	2239	CA	SER	B	88	72.028	7.495	9.435	1.00	48.13
ATOM	2240	C	SER	B	88	72.706	6.179	9.779	1.00	47.65
ATOM	2241	O	SER	B	88	72.336	5.539	10.769	1.00	48.72
ATOM	2242	CB	SER	B	88	72.772	8.601	10.172	1.00	50.40
ATOM	2243	OG	SER	B	88	73.153	8.154	11.463	1.00	54.27
ATOM	2244	N	GLU	B	89	73.703	5.789	8.977	1.00	46.13
ATOM	2245	CA	GLU	B	89	74.457	4.553	9.215	1.00	42.40
ATOM	2246	C	GLU	B	89	75.244	4.747	10.500	1.00	40.61
ATOM	2247	O	GLU	B	89	75.771	5.827	10.753	1.00	38.87
ATOM	2248	CB	GLU	B	89	75.429	4.260	8.075	1.00	43.66
ATOM	2249	CG	GLU	B	89	75.927	2.814	8.056	1.00	43.26
ATOM	2250	CD	GLU	B	89	76.942	2.549	6.958	1.00	41.90
ATOM	2251	OE1	GLU	B	89	76.868	3.203	5.898	1.00	42.94
ATOM	2252	OE2	GLU	B	89	77.806	1.673	7.149	1.00	42.10
ATOM	2253	N	THR	B	90	75.326	3.695	11.304	1.00	39.38
ATOM	2254	CA	THR	B	90	76.002	3.777	12.584	1.00	38.82
ATOM	2255	C	THR	B	90	77.471	3.499	12.510	1.00	39.57
ATOM	2256	O	THR	B	90	77.980	3.040	11.495	1.00	41.55
ATOM	2257	CB	THR	B	90	75.446	2.783	13.577	1.00	37.73
ATOM	2258	OG1	THR	B	90	75.629	1.464	13.055	1.00	38.00
ATOM	2259	CG2	THR	B	90	73.991	3.057	13.855	1.00	38.24
ATOM	2260	N	PRO	B	91	78.182	3.783	13.610	1.00	41.18
ATOM	2261	CA	PRO	B	91	79.623	3.558	13.691	1.00	39.55
ATOM	2262	C	PRO	B	91	79.858	2.090	13.406	1.00	36.23
ATOM	2263	O	PRO	B	91	78.916	1.309	13.415	1.00	33.71
ATOM	2264	CB	PRO	B	91	79.938	3.914	15.138	1.00	41.08
ATOM	2265	CG	PRO	B	91	78.936	4.982	15.434	1.00	42.24
ATOM	2266	CD	PRO	B	91	77.683	4.431	14.838	1.00	40.11
ATOM	2267	N	ARG	B	92	81.105	1.716	13.160	1.00	36.77
ATOM	2268	CA	ARG	B	92	81.421	0.325	12.879	1.00	39.08
ATOM	2269	C	ARG	B	92	81.926	-0.443	14.104	1.00	37.79
ATOM	2270	O	ARG	B	92	82.584	0.103	14.981	1.00	40.29
ATOM	2271	CB	ARG	B	92	82.426	0.228	11.709	1.00	39.84
ATOM	2272	CG	ARG	B	92	83.633	1.145	11.802	1.00	48.36
ATOM	2273	CD	ARG	B	92	84.532	1.026	10.566	1.00	52.92
ATOM	2274	NE	ARG	B	92	85.846	1.671	10.731	1.00	60.91
ATOM	2275	CZ	ARG	B	92	86.713	1.412	11.719	1.00	61.87
ATOM	2276	NH1	ARG	B	92	86.420	0.519	12.657	1.00	60.53
ATOM	2277	NH2	ARG	B	92	87.889	2.036	11.765	1.00	58.89
ATOM	2278	N	VAL	B	93	81.563	-1.712	14.164	1.00	34.98
ATOM	2279	CA	VAL	B	93	81.972	-2.600	15.231	1.00	34.36
ATOM	2280	C	VAL	B	93	82.915	-3.569	14.553	1.00	35.35
ATOM	2281	O	VAL	B	93	82.751	-3.858	13.376	1.00	36.24
ATOM	2282	CB	VAL	B	93	80.787	-3.393	15.756	1.00	35.07
ATOM	2283	CG1	VAL	B	93	81.254	-4.422	16.764	1.00	34.52
ATOM	2284	CG2	VAL	B	93	79.765	-2.454	16.339	1.00	37.17
ATOM	2285	N	VAL	B	94	83.900	-4.086	15.268	1.00	36.53
ATOM	2286	CA	VAL	B	94	84.804	-5.009	14.609	1.00	38.16
ATOM	2287	C	VAL	B	94	84.580	-6.446	14.978	1.00	36.95
ATOM	2288	O	VAL	B	94	84.192	-6.774	16.097	1.00	35.84
ATOM	2289	CB	VAL	B	94	86.292	-4.687	14.877	1.00	39.48
ATOM	2290	CG1	VAL	B	94	86.631	-3.325	14.311	1.00	40.19
ATOM	2291	CG2	VAL	B	94	86.578	-4.749	16.362	1.00	42.25
ATOM	2292	N	TYR	B	95	84.811	-7.298	13.992	1.00	38.03

ATOM	2293	CA	TYR	B	95	84.705	-8.732	14.156	1.00	37.70
ATOM	2294	C	TYR	B	95	86.083	-9.246	13.753	1.00	39.13
ATOM	2295	O	TYR	B	95	86.557	-8.994	12.638	1.00	38.40
ATOM	2296	CB	TYR	B	95	83.601	-9.292	13.260	1.00	35.26
ATOM	2297	CG	TYR	B	95	82.213	-9.060	13.830	1.00	32.24
ATOM	2298	CD1	TYR	B	95	81.625	-7.809	13.783	1.00	27.12
ATOM	2299	CD2	TYR	B	95	81.510	-10.097	14.452	1.00	31.83
ATOM	2300	CE1	TYR	B	95	80.381	-7.592	14.336	1.00	30.33
ATOM	2301	CE2	TYR	B	95	80.263	-9.893	15.008	1.00	28.49
ATOM	2302	CZ	TYR	B	95	79.696	-8.636	14.951	1.00	33.00
ATOM	2303	OH	TYR	B	95	78.440	-8.416	15.503	1.00	36.28
ATOM	2304	N	ASN	B	96	86.732	-9.928	14.691	1.00	39.58
ATOM	2305	CA	ASN	B	96	88.072	-10.457	14.490	1.00	39.50
ATOM	2306	C	ASN	B	96	88.229	-11.851	15.089	1.00	38.89
ATOM	2307	O	ASN	B	96	89.083	-12.081	15.942	1.00	39.50
ATOM	2308	CB	ASN	B	96	89.086	-9.507	15.124	1.00	42.28
ATOM	2309	CG	ASN	B	96	88.764	-9.182	16.592	1.00	44.63
ATOM	2310	OD1	ASN	B	96	89.362	-8.283	17.177	1.00	51.73
ATOM	2311	ND2	ASN	B	96	87.830	-9.913	17.182	1.00	45.73
ATOM	2312	N	SER	B	97	87.408	-12.783	14.633	1.00	37.43
ATOM	2313	CA	SER	B	97	87.460	-14.145	15.123	1.00	36.25
ATOM	2314	C	SER	B	97	86.560	-15.024	14.263	1.00	36.95
ATOM	2315	O	SER	B	97	85.614	-14.531	13.664	1.00	38.93
ATOM	2316	CB	SER	B	97	86.990	-14.170	16.569	1.00	32.69
ATOM	2317	OG	SER	B	97	86.556	-15.469	16.927	1.00	32.93
ATOM	2318	N	ARG	B	98	86.849	-16.316	14.184	1.00	37.81
ATOM	2319	CA	ARG	B	98	86.000	-17.200	13.391	1.00	38.35
ATOM	2320	C	ARG	B	98	84.850	-17.690	14.237	1.00	38.98
ATOM	2321	O	ARG	B	98	83.946	-18.328	13.724	1.00	41.36
ATOM	2322	CB	ARG	B	98	86.773	-18.411	12.878	1.00	41.54
ATOM	2323	CG	ARG	B	98	87.953	-18.063	11.997	1.00	50.81
ATOM	2324	CD	ARG	B	98	88.492	-19.286	11.288	1.00	57.87
ATOM	2325	NE	ARG	B	98	89.470	-18.909	10.273	1.00	65.40
ATOM	2326	CZ	ARG	B	98	90.670	-18.406	10.542	1.00	69.38
ATOM	2327	NH1	ARG	B	98	91.048	-18.221	11.803	1.00	71.56
ATOM	2328	NH2	ARG	B	98	91.490	-18.085	9.550	1.00	72.05
ATOM	2329	N	THR	B	99	84.889	-17.400	15.535	1.00	39.65
ATOM	2330	CA	THR	B	99	83.835	-17.832	16.449	1.00	39.28
ATOM	2331	C	THR	B	99	82.643	-16.907	16.305	1.00	39.56
ATOM	2332	O	THR	B	99	82.805	-15.688	16.302	1.00	38.52
ATOM	2333	CB	THR	B	99	84.297	-17.783	17.912	1.00	38.57
ATOM	2334	OG1	THR	B	99	85.458	-18.604	18.089	1.00	34.08
ATOM	2335	CG2	THR	B	99	83.194	-18.294	18.810	1.00	40.70
ATOM	2336	N	ASP	B	100	81.446	-17.475	16.188	1.00	39.34
ATOM	2337	CA	ASP	B	100	80.261	-16.640	16.025	1.00	39.67
ATOM	2338	C	ASP	B	100	80.021	-15.797	17.260	1.00	38.72
ATOM	2339	O	ASP	B	100	79.769	-16.329	18.339	1.00	39.31
ATOM	2340	CB	ASP	B	100	79.011	-17.484	15.767	1.00	42.90
ATOM	2341	CG	ASP	B	100	79.055	-18.229	14.445	1.00	47.82
ATOM	2342	OD1	ASP	B	100	79.229	-17.585	13.387	1.00	51.81
ATOM	2343	OD2	ASP	B	100	78.899	-19.469	14.464	1.00	52.31
ATOM	2344	N	LYS	B	101	80.111	-14.484	17.097	1.00	37.66
ATOM	2345	CA	LYS	B	101	79.864	-13.544	18.183	1.00	36.80
ATOM	2346	C	LYS	B	101	78.534	-12.886	17.809	1.00	37.25
ATOM	2347	O	LYS	B	101	78.121	-12.944	16.654	1.00	37.67
ATOM	2348	CB	LYS	B	101	80.998	-12.516	18.250	1.00	38.18
ATOM	2349	CG	LYS	B	101	80.594	-11.106	18.714	1.00	40.25
ATOM	2350	CD	LYS	B	101	81.717	-10.079	18.490	1.00	35.55
ATOM	2351	CE	LYS	B	101	81.227	-8.645	18.669	1.00	31.71
ATOM	2352	NZ	LYS	B	101	82.337	-7.697	18.376	1.00	32.12
ATOM	2353	N	PRO	B	102	77.829	-12.287	18.782	1.00	37.80
ATOM	2354	CA	PRO	B	102	76.544	-11.637	18.500	1.00	37.24

ATOM	2355	C	PRO B 102	76.610	-10.341	17.685	1.00	35.52
ATOM	2356	O	PRO B 102	77.670	-9.764	17.481	1.00	34.31
ATOM	2357	CB	PRO B 102	75.974	-11.389	19.900	1.00	36.21
ATOM	2358	CG	PRO B 102	76.525	-12.501	20.678	1.00	35.98
ATOM	2359	CD	PRO B 102	77.967	-12.505	20.230	1.00	38.63
ATOM	2360	N	TRP B 103	75.453	-9.922	17.195	1.00	34.68
ATOM	2361	CA	TRP B 103	75.315	-8.675	16.463	1.00	34.32
ATOM	2362	C	TRP B 103	74.411	-7.898	17.428	1.00	36.72
ATOM	2363	O	TRP B 103	73.186	-8.086	17.466	1.00	38.88
ATOM	2364	CB	TRP B 103	74.632	-8.913	15.125	1.00	30.45
ATOM	2365	CG	TRP B 103	74.611	-7.696	14.284	1.00	26.83
ATOM	2366	CD1	TRP B 103	75.619	-6.803	14.127	1.00	27.89
ATOM	2367	CD2	TRP B 103	73.525	-7.222	13.488	1.00	22.39
ATOM	2368	NE1	TRP B 103	75.231	-5.793	13.284	1.00	25.27
ATOM	2369	CE2	TRP B 103	73.946	-6.025	12.881	1.00	20.05
ATOM	2370	CE3	TRP B 103	72.236	-7.691	13.234	1.00	20.48
ATOM	2371	CZ2	TRP B 103	73.128	-5.287	12.039	1.00	18.25
ATOM	2372	CZ3	TRP B 103	71.424	-6.955	12.394	1.00	23.24
ATOM	2373	CH2	TRP B 103	71.875	-5.762	11.808	1.00	21.04
ATOM	2374	N	PRO B 104	75.022	-7.032	18.241	1.00	35.20
ATOM	2375	CA	PRO B 104	74.465	-6.167	19.274	1.00	34.81
ATOM	2376	C	PRO B 104	73.422	-5.173	18.829	1.00	35.50
ATOM	2377	O	PRO B 104	73.615	-3.974	19.009	1.00	35.85
ATOM	2378	CB	PRO B 104	75.692	-5.465	19.794	1.00	34.03
ATOM	2379	CG	PRO B 104	76.385	-5.176	18.553	1.00	33.29
ATOM	2380	CD	PRO B 104	76.347	-6.527	17.860	1.00	36.12
ATOM	2381	N	VAL B 105	72.328	-5.660	18.252	1.00	34.17
ATOM	2382	CA	VAL B 105	71.269	-4.780	17.807	1.00	32.11
ATOM	2383	C	VAL B 105	70.055	-5.096	18.646	1.00	35.87
ATOM	2384	O	VAL B 105	69.700	-6.267	18.829	1.00	38.20
ATOM	2385	CB	VAL B 105	70.916	-4.984	16.311	1.00	26.85
ATOM	2386	CG1	VAL B 105	69.820	-4.034	15.923	1.00	25.08
ATOM	2387	CG2	VAL B 105	72.117	-4.716	15.437	1.00	27.99
ATOM	2388	N	ALA B 106	69.427	-4.053	19.181	1.00	37.15
ATOM	2389	CA	ALA B 106	68.233	-4.233	19.994	1.00	36.27
ATOM	2390	C	ALA B 106	67.272	-3.080	19.789	1.00	37.34
ATOM	2391	O	ALA B 106	67.657	-1.911	19.799	1.00	39.05
ATOM	2392	CB	ALA B 106	68.602	-4.352	21.463	1.00	32.08
ATOM	2393	N	LEU B 107	66.010	-3.435	19.595	1.00	38.81
ATOM	2394	CA	LEU B 107	64.940	-2.470	19.400	1.00	39.91
ATOM	2395	C	LEU B 107	64.252	-2.150	20.726	1.00	40.15
ATOM	2396	O	LEU B 107	63.963	-3.048	21.526	1.00	37.85
ATOM	2397	CB	LEU B 107	63.906	-3.040	18.424	1.00	39.69
ATOM	2398	CG	LEU B 107	63.959	-2.711	16.932	1.00	37.50
ATOM	2399	CD1	LEU B 107	65.341	-2.243	16.503	1.00	38.11
ATOM	2400	CD2	LEU B 107	63.513	-3.949	16.176	1.00	35.15
ATOM	2401	N	TYR B 108	64.008	-0.861	20.946	1.00	42.02
ATOM	2402	CA	TYR B 108	63.317	-0.367	22.141	1.00	42.55
ATOM	2403	C	TYR B 108	62.072	0.337	21.643	1.00	41.75
ATOM	2404	O	TYR B 108	62.116	1.506	21.254	1.00	41.56
ATOM	2405	CB	TYR B 108	64.210	0.597	22.905	1.00	40.20
ATOM	2406	CG	TYR B 108	65.310	-0.138	23.591	1.00	41.24
ATOM	2407	CD1	TYR B 108	65.023	-1.068	24.580	1.00	41.21
ATOM	2408	CD2	TYR B 108	66.634	0.044	23.221	1.00	47.93
ATOM	2409	CE1	TYR B 108	66.011	-1.803	25.184	1.00	44.93
ATOM	2410	CE2	TYR B 108	67.645	-0.688	23.825	1.00	51.79
ATOM	2411	CZ	TYR B 108	67.323	-1.615	24.809	1.00	50.18
ATOM	2412	OH	TYR B 108	68.312	-2.356	25.421	1.00	54.92
ATOM	2413	N	LEU B 109	60.965	-0.395	21.641	1.00	41.34
ATOM	2414	CA	LEU B 109	59.710	0.134	21.126	1.00	41.20
ATOM	2415	C	LEU B 109	58.721	0.514	22.215	1.00	41.53
ATOM	2416	O	LEU B 109	58.523	-0.235	23.171	1.00	43.71

ATOM	2417	CB	LEU B 109	59.087	-0.897	20.178	1.00	36.82
ATOM	2418	CG	LEU B 109	59.994	-1.361	19.038	1.00	31.14
ATOM	2419	CD1	LEU B 109	59.243	-2.290	18.129	1.00	32.22
ATOM	2420	CD2	LEU B 109	60.472	-0.189	18.258	1.00	25.92
ATOM	2421	N	THR B 110	58.090	1.676	22.064	1.00	41.14
ATOM	2422	CA	THR B 110	57.124	2.143	23.065	1.00	40.90
ATOM	2423	C	THR B 110	55.752	2.443	22.468	1.00	39.12
ATOM	2424	O	THR B 110	55.609	3.304	21.598	1.00	36.51
ATOM	2425	CB	THR B 110	57.619	3.421	23.786	1.00	39.34
ATOM	2426	OG1	THR B 110	59.019	3.300	24.071	1.00	40.23
ATOM	2427	CG2	THR B 110	56.871	3.615	25.081	1.00	33.02
ATOM	2428	N	PRO B 111	54.721	1.728	22.940	1.00	38.23
ATOM	2429	CA	PRO B 111	53.364	1.934	22.437	1.00	38.94
ATOM	2430	C	PRO B 111	52.968	3.363	22.686	1.00	40.43
ATOM	2431	O	PRO B 111	53.302	3.933	23.731	1.00	39.73
ATOM	2432	CB	PRO B 111	52.534	0.963	23.266	1.00	37.23
ATOM	2433	CG	PRO B 111	53.501	-0.125	23.577	1.00	37.15
ATOM	2434	CD	PRO B 111	54.747	0.643	23.932	1.00	36.03
ATOM	2435	N	VAL B 112	52.264	3.949	21.727	1.00	41.40
ATOM	2436	CA	VAL B 112	51.827	5.321	21.883	1.00	41.21
ATOM	2437	C	VAL B 112	50.463	5.390	22.528	1.00	41.95
ATOM	2438	O	VAL B 112	49.748	4.391	22.653	1.00	39.83
ATOM	2439	CB	VAL B 112	51.728	6.066	20.542	1.00	39.96
ATOM	2440	CG1	VAL B 112	53.102	6.329	19.985	1.00	37.97
ATOM	2441	CG2	VAL B 112	50.891	5.266	19.576	1.00	39.45
ATOM	2442	N	SER B 113	50.134	6.607	22.937	1.00	43.57
ATOM	2443	CA	SER B 113	48.864	6.947	23.546	1.00	42.34
ATOM	2444	C	SER B 113	47.753	6.297	22.717	1.00	41.95
ATOM	2445	O	SER B 113	46.896	5.584	23.240	1.00	40.49
ATOM	2446	CB	SER B 113	48.743	8.469	23.521	1.00	39.62
ATOM	2447	OG	SER B 113	47.671	8.936	24.295	1.00	45.22
ATOM	2448	N	SER B 114	47.813	6.529	21.410	1.00	43.32
ATOM	2449	CA	SER B 114	46.837	6.007	20.463	1.00	46.71
ATOM	2450	C	SER B 114	46.979	4.533	20.051	1.00	49.12
ATOM	2451	O	SER B 114	46.127	4.010	19.323	1.00	50.79
ATOM	2452	CB	SER B 114	46.836	6.875	19.199	1.00	47.83
ATOM	2453	OG	SER B 114	48.101	6.898	18.563	1.00	46.06
ATOM	2454	N	ALA B 115	48.037	3.859	20.490	1.00	49.53
ATOM	2455	CA	ALA B 115	48.209	2.455	20.128	1.00	48.16
ATOM	2456	C	ALA B 115	46.893	1.698	20.334	1.00	47.80
ATOM	2457	O	ALA B 115	46.254	1.827	21.392	1.00	44.63
ATOM	2458	CB	ALA B 115	49.314	1.828	20.970	1.00	50.37
ATOM	2459	N	GLY B 116	46.497	0.918	19.321	1.00	46.23
ATOM	2460	CA	GLY B 116	45.263	0.142	19.388	1.00	44.63
ATOM	2461	C	GLY B 116	45.162	-0.912	20.489	1.00	43.29
ATOM	2462	O	GLY B 116	45.419	-0.646	21.677	1.00	43.69
ATOM	2463	N	GLY B 117	44.748	-2.112	20.095	1.00	41.04
ATOM	2464	CA	GLY B 117	44.629	-3.222	21.032	1.00	38.96
ATOM	2465	C	GLY B 117	45.708	-4.238	20.677	1.00	37.42
ATOM	2466	O	GLY B 117	46.443	-4.737	21.543	1.00	35.31
ATOM	2467	N	VAL B 118	45.780	-4.546	19.382	1.00	33.33
ATOM	2468	CA	VAL B 118	46.782	-5.446	18.829	1.00	28.81
ATOM	2469	C	VAL B 118	47.725	-4.524	18.084	1.00	25.27
ATOM	2470	O	VAL B 118	47.550	-4.295	16.900	1.00	23.69
ATOM	2471	CB	VAL B 118	46.174	-6.419	17.822	1.00	29.18
ATOM	2472	CG1	VAL B 118	47.272	-7.217	17.152	1.00	25.06
ATOM	2473	CG2	VAL B 118	45.209	-7.345	18.517	1.00	28.13
ATOM	2474	N	ALA B 119	48.711	-3.978	18.782	1.00	25.61
ATOM	2475	CA	ALA B 119	49.644	-3.037	18.156	1.00	25.24
ATOM	2476	C	ALA B 119	50.579	-3.734	17.199	1.00	23.55
ATOM	2477	O	ALA B 119	51.266	-3.094	16.399	1.00	18.09
ATOM	2478	CB	ALA B 119	50.457	-2.288	19.222	1.00	27.95

ATOM	2479	N	ILE	B	120	50.619	-5.053	17.306	1.00	20.77
ATOM	2480	CA	ILE	B	120	51.462	-5.823	16.430	1.00	22.43
ATOM	2481	C	ILE	B	120	50.759	-7.118	16.136	1.00	25.76
ATOM	2482	O	ILE	B	120	50.452	-7.870	17.048	1.00	30.62
ATOM	2483	CB	ILE	B	120	52.833	-6.086	17.070	1.00	19.35
ATOM	2484	CG1	ILE	B	120	53.700	-4.827	16.941	1.00	19.05
ATOM	2485	CG2	ILE	B	120	53.506	-7.267	16.411	1.00	19.95
ATOM	2486	CD1	ILE	B	120	55.166	-5.035	17.231	1.00	14.82
ATOM	2487	N	LYS	B	121	50.471	-7.378	14.869	1.00	26.86
ATOM	2488	CA	LYS	B	121	49.796	-8.622	14.542	1.00	28.09
ATOM	2489	C	LYS	B	121	50.796	-9.759	14.452	1.00	27.79
ATOM	2490	O	LYS	B	121	51.945	-9.577	14.031	1.00	27.26
ATOM	2491	CB	LYS	B	121	49.027	-8.500	13.221	1.00	33.73
ATOM	2492	CG	LYS	B	121	47.520	-8.282	13.378	1.00	38.66
ATOM	2493	CD	LYS	B	121	47.051	-6.952	12.762	1.00	39.42
ATOM	2494	CE	LYS	B	121	46.114	-6.206	13.718	1.00	39.09
ATOM	2495	NZ	LYS	B	121	45.065	-7.100	14.327	1.00	36.51
ATOM	2496	N	ALA	B	122	50.348	-10.934	14.867	1.00	27.51
ATOM	2497	CA	ALA	B	122	51.175	-12.125	14.835	1.00	28.36
ATOM	2498	C	ALA	B	122	51.514	-12.513	13.375	1.00	30.45
ATOM	2499	O	ALA	B	122	50.651	-12.520	12.485	1.00	31.14
ATOM	2500	CB	ALA	B	122	50.450	-13.256	15.549	1.00	20.11
ATOM	2501	N	GLY	B	123	52.783	-12.814	13.125	1.00	30.99
ATOM	2502	CA	GLY	B	123	53.184	-13.177	11.783	1.00	31.98
ATOM	2503	C	GLY	B	123	53.552	-11.983	10.902	1.00	34.36
ATOM	2504	O	GLY	B	123	54.046	-12.182	9.777	1.00	37.98
ATOM	2505	N	SER	B	124	53.354	-10.755	11.396	1.00	29.22
ATOM	2506	CA	SER	B	124	53.661	-9.572	10.598	1.00	25.44
ATOM	2507	C	SER	B	124	55.106	-9.107	10.585	1.00	22.82
ATOM	2508	O	SER	B	124	55.869	-9.370	11.489	1.00	25.38
ATOM	2509	CB	SER	B	124	52.769	-8.408	11.018	1.00	25.06
ATOM	2510	OG	SER	B	124	53.018	-8.017	12.353	1.00	29.45
ATOM	2511	N	LEU	B	125	55.482	-8.411	9.531	1.00	22.51
ATOM	2512	CA	LEU	B	125	56.832	-7.909	9.425	1.00	22.24
ATOM	2513	C	LEU	B	125	56.897	-6.730	10.374	1.00	26.64
ATOM	2514	O	LEU	B	125	56.137	-5.764	10.258	1.00	29.12
ATOM	2515	CB	LEU	B	125	57.116	-7.456	7.996	1.00	19.61
ATOM	2516	CG	LEU	B	125	58.522	-7.012	7.609	1.00	16.96
ATOM	2517	CD1	LEU	B	125	59.434	-8.217	7.498	1.00	12.54
ATOM	2518	CD2	LEU	B	125	58.467	-6.283	6.291	1.00	13.10
ATOM	2519	N	ILE	B	126	57.804	-6.833	11.334	1.00	30.31
ATOM	2520	CA	ILE	B	126	58.014	-5.815	12.361	1.00	28.90
ATOM	2521	C	ILE	B	126	59.096	-4.845	11.944	1.00	28.17
ATOM	2522	O	ILE	B	126	58.999	-3.654	12.179	1.00	29.71
ATOM	2523	CB	ILE	B	126	58.464	-6.474	13.680	1.00	29.60
ATOM	2524	CG1	ILE	B	126	57.386	-7.423	14.179	1.00	30.80
ATOM	2525	CG2	ILE	B	126	58.759	-5.450	14.710	1.00	31.25
ATOM	2526	CD1	ILE	B	126	56.070	-6.758	14.437	1.00	28.75
ATOM	2527	N	ALA	B	127	60.140	-5.368	11.321	1.00	30.52
ATOM	2528	CA	ALA	B	127	61.255	-4.532	10.907	1.00	29.68
ATOM	2529	C	ALA	B	127	62.218	-5.237	9.939	1.00	25.71
ATOM	2530	O	ALA	B	127	62.228	-6.466	9.820	1.00	22.07
ATOM	2531	CB	ALA	B	127	62.020	-4.072	12.163	1.00	28.72
ATOM	2532	N	VAL	B	128	63.014	-4.441	9.238	1.00	20.81
ATOM	2533	CA	VAL	B	128	64.003	-4.991	8.341	1.00	20.73
ATOM	2534	C	VAL	B	128	65.275	-4.230	8.664	1.00	21.75
ATOM	2535	O	VAL	B	128	65.324	-3.022	8.461	1.00	22.91
ATOM	2536	CB	VAL	B	128	63.662	-4.771	6.852	1.00	19.55
ATOM	2537	CG1	VAL	B	128	64.802	-5.272	6.010	1.00	18.06
ATOM	2538	CG2	VAL	B	128	62.388	-5.517	6.465	1.00	17.53
ATOM	2539	N	LEU	B	129	66.285	-4.935	9.177	1.00	19.75
ATOM	2540	CA	LEU	B	129	67.568	-4.333	9.536	1.00	20.46

ATOM	2541	C	LEU B 129	68.708	-4.746	8.602	1.00	20.61
ATOM	2542	O	LEU B 129	68.945	-5.940	8.405	1.00	19.71
ATOM	2543	CB	LEU B 129	67.939	-4.747	10.948	1.00	24.67
ATOM	2544	CG	LEU B 129	66.904	-4.498	12.034	1.00	26.67
ATOM	2545	CD1	LEU B 129	67.431	-5.078	13.319	1.00	28.57
ATOM	2546	CD2	LEU B 129	66.640	-3.014	12.192	1.00	27.85
ATOM	2547	N	ILE B 130	69.433	-3.774	8.048	1.00	19.63
ATOM	2548	CA	ILE B 130	70.536	-4.099	7.135	1.00	20.96
ATOM	2549	C	ILE B 130	71.918	-3.988	7.781	1.00	24.72
ATOM	2550	O	ILE B 130	72.353	-2.897	8.180	1.00	26.00
ATOM	2551	CB	ILE B 130	70.536	-3.217	5.865	1.00	15.12
ATOM	2552	CG1	ILE B 130	69.218	-3.352	5.119	1.00	13.73
ATOM	2553	CG2	ILE B 130	71.619	-3.670	4.930	1.00	7.31
ATOM	2554	CD1	ILE B 130	69.095	-2.369	3.967	1.00	14.89
ATOM	2555	N	LEU B 131	72.587	-5.138	7.863	1.00	24.48
ATOM	2556	CA	LEU B 131	73.907	-5.277	8.447	1.00	25.50
ATOM	2557	C	LEU B 131	74.907	-5.087	7.338	1.00	27.87
ATOM	2558	O	LEU B 131	74.871	-5.808	6.359	1.00	28.20
ATOM	2559	CB	LEU B 131	74.057	-6.679	9.046	1.00	25.88
ATOM	2560	CG	LEU B 131	75.402	-7.088	9.657	1.00	25.94
ATOM	2561	CD1	LEU B 131	75.239	-8.345	10.521	1.00	16.75
ATOM	2562	CD2	LEU B 131	76.410	-7.310	8.536	1.00	23.26
ATOM	2563	N	ARG B 132	75.808	-4.123	7.496	1.00	33.68
ATOM	2564	CA	ARG B 132	76.819	-3.842	6.480	1.00	34.45
ATOM	2565	C	ARG B 132	78.186	-4.390	6.886	1.00	35.32
ATOM	2566	O	ARG B 132	78.570	-4.314	8.057	1.00	36.30
ATOM	2567	CB	ARG B 132	76.911	-2.340	6.246	1.00	35.75
ATOM	2568	CG	ARG B 132	77.677	-1.983	4.996	1.00	41.88
ATOM	2569	CD	ARG B 132	77.505	-0.520	4.650	1.00	41.66
ATOM	2570	NE	ARG B 132	77.883	-0.272	3.266	1.00	45.55
ATOM	2571	CZ	ARG B 132	77.369	0.703	2.525	1.00	51.19
ATOM	2572	NH1	ARG B 132	76.454	1.514	3.049	1.00	48.49
ATOM	2573	NH2	ARG B 132	77.758	0.862	1.261	1.00	55.75
ATOM	2574	N	ASN B 133	78.921	-4.922	5.911	1.00	33.10
ATOM	2575	CA	ASN B 133	80.224	-5.510	6.173	1.00	32.22
ATOM	2576	C	ASN B 133	81.296	-5.088	5.195	1.00	32.69
ATOM	2577	O	ASN B 133	81.099	-5.092	3.985	1.00	35.14
ATOM	2578	CB	ASN B 133	80.095	-7.043	6.199	1.00	32.67
ATOM	2579	CG	ASN B 133	81.371	-7.765	5.773	1.00	35.58
ATOM	2580	OD1	ASN B 133	81.673	-7.875	4.581	1.00	34.38
ATOM	2581	ND2	ASN B 133	82.121	-8.263	6.747	1.00	34.37
ATOM	2582	N	THR B 134	82.442	-4.720	5.739	1.00	31.28
ATOM	2583	CA	THR B 134	83.572	-4.316	4.932	1.00	32.96
ATOM	2584	C	THR B 134	84.777	-4.887	5.639	1.00	34.42
ATOM	2585	O	THR B 134	84.625	-5.561	6.653	1.00	32.75
ATOM	2586	CB	THR B 134	83.688	-2.805	4.872	1.00	32.32
ATOM	2587	OG1	THR B 134	83.412	-2.271	6.170	1.00	38.86
ATOM	2588	CG2	THR B 134	82.716	-2.235	3.866	1.00	28.98
ATOM	2589	N	ASN B 135	85.972	-4.632	5.116	1.00	36.84
ATOM	2590	CA	ASN B 135	87.177	-5.161	5.745	1.00	39.24
ATOM	2591	C	ASN B 135	88.393	-4.335	5.393	1.00	41.72
ATOM	2592	O	ASN B 135	88.388	-3.588	4.414	1.00	44.24
ATOM	2593	CB	ASN B 135	87.419	-6.587	5.296	1.00	35.59
ATOM	2594	CG	ASN B 135	87.610	-6.681	3.818	1.00	35.13
ATOM	2595	OD1	ASN B 135	86.718	-6.351	3.047	1.00	34.76
ATOM	2596	ND2	ASN B 135	88.783	-7.121	3.404	1.00	40.86
ATOM	2597	N	ASN B 136	89.444	-4.491	6.189	1.00	42.19
ATOM	2598	CA	ASN B 136	90.670	-3.748	5.967	1.00	41.63
ATOM	2599	C	ASN B 136	91.566	-4.381	4.915	1.00	40.95
ATOM	2600	O	ASN B 136	92.656	-3.883	4.658	1.00	41.35
ATOM	2601	CB	ASN B 136	91.432	-3.626	7.279	1.00	41.22
ATOM	2602	CG	ASN B 136	91.949	-4.955	7.775	1.00	40.89

ATOM	2603	OD1	ASN	B	136	92.288	-5.100	8.954	1.00	40.56
ATOM	2604	ND2	ASN	B	136	92.035	-5.931	6.876	1.00	36.03
ATOM	2605	N	TYR	B	137	91.112	-5.476	4.309	1.00	42.53
ATOM	2606	CA	TYR	B	137	91.913	-6.159	3.295	1.00	42.12
ATOM	2607	C	TYR	B	137	91.618	-5.798	1.863	1.00	40.01
ATOM	2608	O	TYR	B	137	92.537	-5.682	1.073	1.00	40.43
ATOM	2609	CB	TYR	B	137	91.810	-7.680	3.387	1.00	42.47
ATOM	2610	CG	TYR	B	137	92.560	-8.328	2.238	1.00	47.46
ATOM	2611	CD1	TYR	B	137	93.946	-8.180	2.117	1.00	48.57
ATOM	2612	CD2	TYR	B	137	91.885	-9.042	1.242	1.00	47.52
ATOM	2613	CE1	TYR	B	137	94.639	-8.727	1.038	1.00	49.80
ATOM	2614	CE2	TYR	B	137	92.564	-9.593	0.157	1.00	46.83
ATOM	2615	CZ	TYR	B	137	93.945	-9.434	0.059	1.00	50.97
ATOM	2616	OH	TYR	B	137	94.637	-9.977	-1.008	1.00	46.78
ATOM	2617	N	ASN	B	138	90.345	-5.669	1.514	1.00	40.39
ATOM	2618	CA	ASN	B	138	89.984	-5.324	0.151	1.00	41.26
ATOM	2619	C	ASN	B	138	88.840	-4.331	0.114	1.00	45.81
ATOM	2620	O	ASN	B	138	88.453	-3.783	1.150	1.00	48.81
ATOM	2621	CB	ASN	B	138	89.617	-6.574	-0.634	1.00	38.14
ATOM	2622	CG	ASN	B	138	88.352	-7.217	-0.146	1.00	35.66
ATOM	2623	OD1	ASN	B	138	88.057	-8.357	-0.488	1.00	36.78
ATOM	2624	ND2	ASN	B	138	87.585	-6.492	0.647	1.00	34.96
ATOM	2625	N	SER	B	139	88.284	-4.118	-1.076	1.00	47.86
ATOM	2626	CA	SER	B	139	87.202	-3.151	-1.261	1.00	47.29
ATOM	2627	C	SER	B	139	85.812	-3.761	-1.343	1.00	46.44
ATOM	2628	O	SER	B	139	84.921	-3.202	-1.981	1.00	48.49
ATOM	2629	CB	SER	B	139	87.482	-2.336	-2.518	1.00	46.45
ATOM	2630	OG	SER	B	139	88.031	-3.179	-3.521	1.00	52.08
ATOM	2631	N	ASP	B	140	85.625	-4.905	-0.697	1.00	43.74
ATOM	2632	CA	ASP	B	140	84.329	-5.567	-0.714	1.00	41.91
ATOM	2633	C	ASP	B	140	83.365	-4.848	0.222	1.00	39.99
ATOM	2634	O	ASP	B	140	83.754	-4.406	1.306	1.00	40.75
ATOM	2635	CB	ASP	B	140	84.460	-7.028	-0.262	1.00	41.81
ATOM	2636	CG	ASP	B	140	85.214	-7.884	-1.245	1.00	41.14
ATOM	2637	OD1	ASP	B	140	85.500	-7.410	-2.362	1.00	42.56
ATOM	2638	OD2	ASP	B	140	85.515	-9.042	-0.887	1.00	43.73
ATOM	2639	N	ASP	B	141	82.110	-4.744	-0.204	1.00	36.87
ATOM	2640	CA	ASP	B	141	81.062	-4.115	0.579	1.00	34.06
ATOM	2641	C	ASP	B	141	79.793	-4.933	0.387	1.00	34.51
ATOM	2642	O	ASP	B	141	79.106	-4.780	-0.621	1.00	35.02
ATOM	2643	CB	ASP	B	141	80.837	-2.692	0.096	1.00	34.61
ATOM	2644	CG	ASP	B	141	79.663	-2.036	0.764	1.00	40.72
ATOM	2645	OD1	ASP	B	141	78.520	-2.243	0.308	1.00	49.90
ATOM	2646	OD2	ASP	B	141	79.874	-1.324	1.761	1.00	41.55
ATOM	2647	N	PHE	B	142	79.488	-5.800	1.353	1.00	33.79
ATOM	2648	CA	PHE	B	142	78.313	-6.669	1.290	1.00	32.92
ATOM	2649	C	PHE	B	142	77.243	-6.331	2.305	1.00	32.52
ATOM	2650	O	PHE	B	142	77.552	-5.907	3.419	1.00	32.94
ATOM	2651	CB	PHE	B	142	78.737	-8.109	1.510	1.00	36.72
ATOM	2652	CG	PHE	B	142	79.792	-8.570	0.562	1.00	37.16
ATOM	2653	CD1	PHE	B	142	79.599	-8.470	-0.802	1.00	34.64
ATOM	2654	CD2	PHE	B	142	80.976	-9.117	1.035	1.00	37.19
ATOM	2655	CE1	PHE	B	142	80.561	-8.904	-1.671	1.00	35.45
ATOM	2656	CE2	PHE	B	142	81.940	-9.552	0.169	1.00	33.32
ATOM	2657	CZ	PHE	B	142	81.732	-9.446	-1.186	1.00	35.04
ATOM	2658	N	GLN	B	143	75.984	-6.553	1.926	1.00	30.38
ATOM	2659	CA	GLN	B	143	74.864	-6.258	2.810	1.00	25.90
ATOM	2660	C	GLN	B	143	74.066	-7.479	3.227	1.00	25.89
ATOM	2661	O	GLN	B	143	73.634	-8.283	2.401	1.00	28.53
ATOM	2662	CB	GLN	B	143	73.931	-5.260	2.151	1.00	21.47
ATOM	2663	CG	GLN	B	143	74.579	-3.944	1.830	1.00	32.74
ATOM	2664	CD	GLN	B	143	73.571	-2.820	1.849	1.00	42.80

ATOM	2665	OE1	GLN	B	143	72.583	-2.850	1.108	1.00	47.45
ATOM	2666	NE2	GLN	B	143	73.802	-1.819	2.707	1.00	44.64
ATOM	2667	N	PHE	B	144	73.879	-7.616	4.528	1.00	25.76
ATOM	2668	CA	PHE	B	144	73.123	-8.717	5.085	1.00	25.00
ATOM	2669	C	PHE	B	144	71.790	-8.147	5.499	1.00	27.70
ATOM	2670	O	PHE	B	144	71.711	-7.301	6.381	1.00	32.08
ATOM	2671	CB	PHE	B	144	73.867	-9.301	6.276	1.00	23.13
ATOM	2672	CG	PHE	B	144	75.090	-10.078	5.885	1.00	26.01
ATOM	2673	CD1	PHE	B	144	76.196	-9.429	5.332	1.00	25.71
ATOM	2674	CD2	PHE	B	144	75.120	-11.473	6.015	1.00	25.92
ATOM	2675	CE1	PHE	B	144	77.321	-10.156	4.909	1.00	25.03
ATOM	2676	CE2	PHE	B	144	76.230	-12.209	5.601	1.00	25.70
ATOM	2677	CZ	PHE	B	144	77.335	-11.549	5.046	1.00	27.69
ATOM	2678	N	VAL	B	145	70.735	-8.605	4.847	1.00	28.72
ATOM	2679	CA	VAL	B	145	69.409	-8.097	5.126	1.00	27.45
ATOM	2680	C	VAL	B	145	68.546	-8.980	6.040	1.00	27.79
ATOM	2681	O	VAL	B	145	68.070	-10.057	5.647	1.00	30.49
ATOM	2682	CB	VAL	B	145	68.702	-7.815	3.788	1.00	29.48
ATOM	2683	CG1	VAL	B	145	67.204	-7.583	3.998	1.00	33.45
ATOM	2684	CG2	VAL	B	145	69.342	-6.601	3.140	1.00	21.71
ATOM	2685	N	TRP	B	146	68.338	-8.504	7.267	1.00	23.94
ATOM	2686	CA	TRP	B	146	67.545	-9.244	8.239	1.00	21.60
ATOM	2687	C	TRP	B	146	66.122	-8.747	8.260	1.00	22.80
ATOM	2688	O	TRP	B	146	65.889	-7.553	8.425	1.00	23.84
ATOM	2689	CB	TRP	B	146	68.139	-9.106	9.646	1.00	16.91
ATOM	2690	CG	TRP	B	146	69.586	-9.372	9.673	1.00	10.91
ATOM	2691	CD1	TRP	B	146	70.591	-8.454	9.536	1.00	9.77
ATOM	2692	CD2	TRP	B	146	70.202	-10.650	9.637	1.00	4.00
ATOM	2693	NE1	TRP	B	146	71.793	-9.088	9.395	1.00	7.47
ATOM	2694	CE2	TRP	B	146	71.586	-10.441	9.455	1.00	4.30
ATOM	2695	CE3	TRP	B	146	69.722	-11.953	9.736	1.00	5.20
ATOM	2696	CZ2	TRP	B	146	72.496	-11.490	9.369	1.00	1.00
ATOM	2697	CZ3	TRP	B	146	70.628	-13.000	9.653	1.00	7.46
ATOM	2698	CH2	TRP	B	146	72.005	-12.756	9.468	1.00	1.69
ATOM	2699	N	ASN	B	147	65.183	-9.680	8.095	1.00	23.74
ATOM	2700	CA	ASN	B	147	63.753	-9.386	8.113	1.00	23.13
ATOM	2701	C	ASN	B	147	63.160	-9.877	9.428	1.00	24.88
ATOM	2702	O	ASN	B	147	63.087	-11.079	9.665	1.00	27.32
ATOM	2703	CB	ASN	B	147	63.042	-10.081	6.945	1.00	18.53
ATOM	2704	CG	ASN	B	147	63.631	-9.715	5.602	1.00	17.54
ATOM	2705	OD1	ASN	B	147	63.875	-8.550	5.307	1.00	18.32
ATOM	2706	ND2	ASN	B	147	63.859	-10.715	4.778	1.00	16.75
ATOM	2707	N	ILE	B	148	62.730	-8.949	10.278	1.00	26.06
ATOM	2708	CA	ILE	B	148	62.153	-9.318	11.567	1.00	24.25
ATOM	2709	C	ILE	B	148	60.644	-9.548	11.522	1.00	21.44
ATOM	2710	O	ILE	B	148	59.879	-8.635	11.269	1.00	18.72
ATOM	2711	CB	ILE	B	148	62.459	-8.244	12.646	1.00	24.38
ATOM	2712	CG1	ILE	B	148	63.913	-8.347	13.100	1.00	23.76
ATOM	2713	CG2	ILE	B	148	61.558	-8.441	13.860	1.00	27.25
ATOM	2714	CD1	ILE	B	148	64.931	-8.230	11.994	1.00	25.16
ATOM	2715	N	TYR	B	149	60.239	-10.786	11.771	1.00	19.36
ATOM	2716	CA	TYR	B	149	58.839	-11.156	11.798	1.00	20.42
ATOM	2717	C	TYR	B	149	58.373	-11.448	13.217	1.00	22.69
ATOM	2718	O	TYR	B	149	59.020	-12.196	13.948	1.00	26.83
ATOM	2719	CB	TYR	B	149	58.594	-12.400	10.947	1.00	16.84
ATOM	2720	CG	TYR	B	149	58.483	-12.118	9.473	1.00	23.93
ATOM	2721	CD1	TYR	B	149	59.617	-11.860	8.700	1.00	21.22
ATOM	2722	CD2	TYR	B	149	57.233	-12.107	8.838	1.00	25.10
ATOM	2723	CE1	TYR	B	149	59.515	-11.604	7.334	1.00	20.13
ATOM	2724	CE2	TYR	B	149	57.125	-11.853	7.474	1.00	25.98
ATOM	2725	CZ	TYR	B	149	58.266	-11.604	6.728	1.00	25.48
ATOM	2726	OH	TYR	B	149	58.136	-11.374	5.374	1.00	31.82

ATOM	2727	N	ALA	B	150	57.240	-10.879	13.605	1.00	21.77
ATOM	2728	CA	ALA	B	150	56.711	-11.125	14.932	1.00	19.20
ATOM	2729	C	ALA	B	150	55.930	-12.435	14.941	1.00	17.39
ATOM	2730	O	ALA	B	150	55.072	-12.655	14.099	1.00	15.98
ATOM	2731	CB	ALA	B	150	55.816	-9.983	15.339	1.00	23.43
ATOM	2732	N	ASN	B	151	56.231	-13.294	15.903	1.00	16.12
ATOM	2733	CA	ASN	B	151	55.564	-14.581	16.025	1.00	18.81
ATOM	2734	C	ASN	B	151	54.218	-14.527	16.730	1.00	20.19
ATOM	2735	O	ASN	B	151	53.406	-15.450	16.591	1.00	18.85
ATOM	2736	CB	ASN	B	151	56.444	-15.577	16.784	1.00	20.57
ATOM	2737	CG	ASN	B	151	57.493	-16.205	15.922	1.00	22.02
ATOM	2738	OD1	ASN	B	151	57.261	-16.503	14.751	1.00	26.70
ATOM	2739	ND2	ASN	B	151	58.658	-16.440	16.501	1.00	28.41
ATOM	2740	N	ASN	B	152	53.995	-13.471	17.513	1.00	22.14
ATOM	2741	CA	ASN	B	152	52.741	-13.322	18.256	1.00	22.36
ATOM	2742	C	ASN	B	152	52.242	-11.890	18.231	1.00	23.59
ATOM	2743	O	ASN	B	152	52.952	-10.973	17.811	1.00	19.63
ATOM	2744	CB	ASN	B	152	52.946	-13.706	19.702	1.00	15.66
ATOM	2745	CG	ASN	B	152	54.123	-13.001	20.291	1.00	19.70
ATOM	2746	OD1	ASN	B	152	55.268	-13.304	19.939	1.00	23.60
ATOM	2747	ND2	ASN	B	152	53.868	-12.031	21.171	1.00	17.02
ATOM	2748	N	ASP	B	153	51.011	-11.718	18.704	1.00	25.85
ATOM	2749	CA	ASP	B	153	50.390	-10.408	18.781	1.00	28.05
ATOM	2750	C	ASP	B	153	51.006	-9.679	19.953	1.00	28.46
ATOM	2751	O	ASP	B	153	51.270	-10.282	20.982	1.00	31.62
ATOM	2752	CB	ASP	B	153	48.881	-10.519	19.063	1.00	28.55
ATOM	2753	CG	ASP	B	153	48.080	-10.968	17.864	1.00	33.31
ATOM	2754	OD1	ASP	B	153	48.239	-10.358	16.787	1.00	44.07
ATOM	2755	OD2	ASP	B	153	47.272	-11.915	17.994	1.00	30.60
ATOM	2756	N	VAL	B	154	51.246	-8.390	19.798	1.00	29.35
ATOM	2757	CA	VAL	B	154	51.743	-7.585	20.903	1.00	30.98
ATOM	2758	C	VAL	B	154	50.607	-6.626	21.248	1.00	30.60
ATOM	2759	O	VAL	B	154	50.334	-5.660	20.526	1.00	28.60
ATOM	2760	CB	VAL	B	154	52.998	-6.791	20.530	1.00	33.27
ATOM	2761	CG1	VAL	B	154	53.210	-5.650	21.517	1.00	30.94
ATOM	2762	CG2	VAL	B	154	54.192	-7.718	20.534	1.00	34.90
ATOM	2763	N	VAL	B	155	49.935	-6.934	22.349	1.00	30.46
ATOM	2764	CA	VAL	B	155	48.803	-6.152	22.839	1.00	31.62
ATOM	2765	C	VAL	B	155	49.165	-5.009	23.808	1.00	31.82
ATOM	2766	O	VAL	B	155	49.937	-5.182	24.751	1.00	25.75
ATOM	2767	CB	VAL	B	155	47.756	-7.087	23.515	1.00	29.12
ATOM	2768	CG1	VAL	B	155	47.023	-6.355	24.608	1.00	25.57
ATOM	2769	CG2	VAL	B	155	46.781	-7.613	22.466	1.00	28.43
ATOM	2770	N	VAL	B	156	48.590	-3.841	23.539	1.00	33.04
ATOM	2771	CA	VAL	B	156	48.777	-2.647	24.360	1.00	34.43
ATOM	2772	C	VAL	B	156	47.421	-2.368	25.015	1.00	34.92
ATOM	2773	O	VAL	B	156	46.537	-1.770	24.400	1.00	35.51
ATOM	2774	CB	VAL	B	156	49.167	-1.440	23.497	1.00	34.51
ATOM	2775	CG1	VAL	B	156	49.138	-0.183	24.326	1.00	34.33
ATOM	2776	CG2	VAL	B	156	50.537	-1.653	22.908	1.00	36.99
ATOM	2777	N	PRO	B	157	47.246	-2.784	26.280	1.00	35.14
ATOM	2778	CA	PRO	B	157	45.998	-2.595	27.022	1.00	33.08
ATOM	2779	C	PRO	B	157	45.487	-1.176	26.942	1.00	32.95
ATOM	2780	O	PRO	B	157	46.268	-0.222	26.969	1.00	29.20
ATOM	2781	CB	PRO	B	157	46.379	-2.976	28.442	1.00	32.16
ATOM	2782	CG	PRO	B	157	47.478	-3.943	28.239	1.00	34.69
ATOM	2783	CD	PRO	B	157	48.298	-3.252	27.192	1.00	36.30
ATOM	2784	N	THR	B	158	44.168	-1.043	26.834	1.00	32.67
ATOM	2785	CA	THR	B	158	43.563	0.276	26.757	1.00	32.90
ATOM	2786	C	THR	B	158	43.514	0.869	28.161	1.00	32.29
ATOM	2787	O	THR	B	158	43.102	0.201	29.110	1.00	32.46
ATOM	2788	CB	THR	B	158	42.160	0.200	26.123	1.00	29.05

ATOM	2789	OG1	THR	B	158	41.389	1.328	26.526	1.00	30.69
ATOM	2790	CG2	THR	B	158	41.476	-1.049	26.526	1.00	27.05
ATOM	2791	N	GLY	B	159	43.961	2.118	28.283	1.00	31.48
ATOM	2792	CA	GLY	B	159	43.998	2.782	29.572	1.00	31.48
ATOM	2793	C	GLY	B	159	42.714	3.463	30.007	1.00	31.57
ATOM	2794	O	GLY	B	159	41.699	3.415	29.306	1.00	31.94
ATOM	2795	N	GLY	B	160	42.752	4.099	31.175	1.00	28.28
ATOM	2796	CA	GLY	B	160	41.562	4.768	31.652	1.00	27.07
ATOM	2797	C	GLY	B	160	41.480	6.113	31.000	1.00	25.68
ATOM	2798	O	GLY	B	160	42.492	6.618	30.521	1.00	26.60
ATOM	2799	N	CYS	B	161	40.299	6.707	30.987	1.00	27.42
ATOM	2800	CA	CYS	B	161	40.146	8.022	30.371	1.00	34.48
ATOM	2801	C	CYS	B	161	40.631	9.173	31.273	1.00	35.59
ATOM	2802	O	CYS	B	161	40.963	8.955	32.439	1.00	36.17
ATOM	2803	CB	CYS	B	161	38.693	8.208	29.987	1.00	34.61
ATOM	2804	SG	CYS	B	161	38.061	6.781	29.052	1.00	40.33
ATOM	2805	N	ASP	B	162	40.696	10.391	30.740	1.00	36.98
ATOM	2806	CA	ASP	B	162	41.156	11.511	31.553	1.00	39.12
ATOM	2807	C	ASP	B	162	40.063	12.516	31.818	1.00	41.16
ATOM	2808	O	ASP	B	162	39.446	13.039	30.892	1.00	38.33
ATOM	2809	CB	ASP	B	162	42.345	12.220	30.908	1.00	40.55
ATOM	2810	CG	ASP	B	162	42.826	13.404	31.729	1.00	43.62
ATOM	2811	OD1	ASP	B	162	42.742	13.334	32.972	1.00	45.46
ATOM	2812	OD2	ASP	B	162	43.298	14.402	31.144	1.00	45.90
ATOM	2813	N	VAL	B	163	39.835	12.775	33.101	1.00	44.53
ATOM	2814	CA	VAL	B	163	38.815	13.710	33.530	1.00	48.84
ATOM	2815	C	VAL	B	163	39.391	15.090	33.787	1.00	54.56
ATOM	2816	O	VAL	B	163	39.809	15.410	34.891	1.00	55.47
ATOM	2817	CB	VAL	B	163	38.118	13.210	34.793	1.00	45.18
ATOM	2818	CG1	VAL	B	163	37.129	14.253	35.288	1.00	44.84
ATOM	2819	CG2	VAL	B	163	37.401	11.906	34.490	1.00	41.83
ATOM	2820	N	SER	B	164	39.415	15.907	32.745	1.00	61.85
ATOM	2821	CA	SER	B	164	39.930	17.256	32.861	1.00	70.05
ATOM	2822	C	SER	B	164	38.870	18.097	33.549	1.00	74.32
ATOM	2823	O	SER	B	164	37.682	18.015	33.218	1.00	75.50
ATOM	2824	CB	SER	B	164	40.226	17.843	31.474	1.00	73.30
ATOM	2825	OG	SER	B	164	41.176	17.066	30.762	1.00	78.44
ATOM	2826	N	ALA	B	165	39.305	18.907	34.506	1.00	78.81
ATOM	2827	CA	ALA	B	165	38.393	19.771	35.240	1.00	82.25
ATOM	2828	C	ALA	B	165	39.138	20.924	35.912	1.00	84.40
ATOM	2829	O	ALA	B	165	40.314	20.800	36.270	1.00	86.49
ATOM	2830	CB	ALA	B	165	37.635	18.949	36.288	1.00	80.62
ATOM	2831	N	ARG	B	166	38.453	22.052	36.065	1.00	86.16
ATOM	2832	CA	ARG	B	166	39.030	23.219	36.725	1.00	86.29
ATOM	2833	C	ARG	B	166	38.763	23.036	38.230	1.00	85.48
ATOM	2834	O	ARG	B	166	37.619	22.850	38.664	1.00	85.71
ATOM	2835	CB	ARG	B	166	38.381	24.494	36.171	1.00	88.00
ATOM	2836	CG	ARG	B	166	38.460	24.560	34.644	1.00	87.41
ATOM	2837	CD	ARG	B	166	37.712	25.741	34.048	1.00	86.62
ATOM	2838	NE	ARG	B	166	37.589	25.593	32.599	1.00	87.17
ATOM	2839	CZ	ARG	B	166	36.771	26.311	31.836	1.00	88.10
ATOM	2840	NH1	ARG	B	166	35.993	27.245	32.372	1.00	86.41
ATOM	2841	NH2	ARG	B	166	36.716	26.076	30.534	1.00	88.39
ATOM	2842	N	ASP	B	167	39.839	23.065	39.009	1.00	83.23
ATOM	2843	CA	ASP	B	167	39.782	22.849	40.450	1.00	80.82
ATOM	2844	C	ASP	B	167	38.676	23.555	41.200	1.00	79.24
ATOM	2845	O	ASP	B	167	38.037	24.463	40.671	1.00	79.35
ATOM	2846	CB	ASP	B	167	41.112	23.227	41.086	1.00	83.72
ATOM	2847	CG	ASP	B	167	41.331	22.534	42.401	1.00	85.10
ATOM	2848	OD1	ASP	B	167	40.500	21.670	42.748	1.00	86.89
ATOM	2849	OD2	ASP	B	167	42.330	22.841	43.080	1.00	87.68
ATOM	2850	N	VAL	B	168	38.481	23.124	42.448	1.00	77.90

ATOM	2851	CA	VAL	B	168	37.465	23.659	43.364	1.00	77.02
ATOM	2852	C	VAL	B	168	36.618	24.797	42.780	1.00	75.97
ATOM	2853	O	VAL	B	168	37.087	25.930	42.634	1.00	75.98
ATOM	2854	CB	VAL	B	168	38.120	24.120	44.708	1.00	75.50
ATOM	2855	CG1	VAL	B	168	39.326	25.000	44.431	1.00	76.17
ATOM	2856	CG2	VAL	B	168	37.107	24.860	45.565	1.00	71.94
ATOM	2857	N	THR	B	169	35.366	24.483	42.450	1.00	73.45
ATOM	2858	CA	THR	B	169	34.456	25.464	41.869	1.00	70.91
ATOM	2859	C	THR	B	169	33.895	26.446	42.888	1.00	69.65
ATOM	2860	O	THR	B	169	33.469	26.067	43.984	1.00	67.35
ATOM	2861	CB	THR	B	169	33.295	24.779	41.163	1.00	70.00
ATOM	2862	OG1	THR	B	169	33.810	23.935	40.132	1.00	72.63
ATOM	2863	CG2	THR	B	169	32.376	25.803	40.543	1.00	70.84
ATOM	2864	N	VAL	B	170	33.891	27.717	42.502	1.00	68.34
ATOM	2865	CA	VAL	B	170	33.404	28.780	43.367	1.00	66.34
ATOM	2866	C	VAL	B	170	31.896	28.953	43.201	1.00	65.47
ATOM	2867	O	VAL	B	170	31.431	29.740	42.372	1.00	65.86
ATOM	2868	CB	VAL	B	170	34.123	30.118	43.051	1.00	65.17
ATOM	2869	CG1	VAL	B	170	34.150	30.990	44.282	1.00	64.11
ATOM	2870	CG2	VAL	B	170	35.541	29.853	42.570	1.00	65.68
ATOM	2871	N	THR	B	171	31.136	28.198	43.990	1.00	63.59
ATOM	2872	CA	THR	B	171	29.681	28.263	43.944	1.00	63.37
ATOM	2873	C	THR	B	171	29.259	29.566	44.588	1.00	64.76
ATOM	2874	O	THR	B	171	28.115	29.725	45.002	1.00	66.58
ATOM	2875	CB	THR	B	171	29.034	27.077	44.715	1.00	61.55
ATOM	2876	OG1	THR	B	171	27.617	27.260	44.812	1.00	57.48
ATOM	2877	CG2	THR	B	171	29.587	26.986	46.101	1.00	61.80
ATOM	2878	N	LEU	B	172	30.194	30.507	44.659	1.00	66.40
ATOM	2879	CA	LEU	B	172	29.931	31.802	45.274	1.00	67.44
ATOM	2880	C	LEU	B	172	28.579	32.404	44.897	1.00	65.61
ATOM	2881	O	LEU	B	172	27.857	32.872	45.788	1.00	65.90
ATOM	2882	CB	LEU	B	172	31.063	32.799	44.946	1.00	72.45
ATOM	2883	CG	LEU	B	172	31.028	34.253	45.470	1.00	76.01
ATOM	2884	CD1	LEU	B	172	32.430	34.864	45.383	1.00	77.18
ATOM	2885	CD2	LEU	B	172	30.036	35.099	44.664	1.00	75.97
ATOM	2886	N	PRO	B	173	28.208	32.382	43.591	1.00	61.19
ATOM	2887	CA	PRO	B	173	26.915	32.967	43.235	1.00	58.96
ATOM	2888	C	PRO	B	173	25.994	32.997	44.443	1.00	59.45
ATOM	2889	O	PRO	B	173	25.319	32.020	44.750	1.00	60.21
ATOM	2890	CB	PRO	B	173	26.418	32.061	42.101	1.00	56.40
ATOM	2891	CG	PRO	B	173	27.365	30.898	42.092	1.00	56.07
ATOM	2892	CD	PRO	B	173	28.655	31.492	42.513	1.00	56.79
ATOM	2893	N	ASP	B	174	26.030	34.124	45.148	1.00	58.88
ATOM	2894	CA	ASP	B	174	25.246	34.338	46.348	1.00	59.20
ATOM	2895	C	ASP	B	174	24.023	33.436	46.379	1.00	58.80
ATOM	2896	O	ASP	B	174	23.276	33.352	45.400	1.00	55.62
ATOM	2897	CB	ASP	B	174	24.852	35.810	46.434	1.00	63.06
ATOM	2898	CG	ASP	B	174	26.062	36.728	46.525	1.00	62.78
ATOM	2899	OD1	ASP	B	174	26.934	36.664	45.631	1.00	58.73
ATOM	2900	OD2	ASP	B	174	26.137	37.511	47.495	1.00	67.30
ATOM	2901	N	TYR	B	175	23.838	32.768	47.517	1.00	58.33
ATOM	2902	CA	TYR	B	175	22.757	31.805	47.728	1.00	57.86
ATOM	2903	C	TYR	B	175	21.838	31.466	46.572	1.00	58.80
ATOM	2904	O	TYR	B	175	21.758	30.304	46.173	1.00	63.62
ATOM	2905	CB	TYR	B	175	21.869	32.183	48.903	1.00	56.55
ATOM	2906	CG	TYR	B	175	20.569	31.396	48.915	1.00	55.53
ATOM	2907	CD1	TYR	B	175	20.566	30.002	48.800	1.00	55.86
ATOM	2908	CD2	TYR	B	175	19.345	32.042	49.044	1.00	56.49
ATOM	2909	CE1	TYR	B	175	19.374	29.284	48.817	1.00	56.52
ATOM	2910	CE2	TYR	B	175	18.154	31.331	49.067	1.00	55.90
ATOM	2911	CZ	TYR	B	175	18.175	29.962	48.955	1.00	55.86
ATOM	2912	OH	TYR	B	175	16.990	29.280	49.011	1.00	60.65

ATOM	2913	N	PRO B 176	21.096	32.451	46.040	1.00	54.81
ATOM	2914	CA	PRO B 176	20.216	32.071	44.929	1.00	52.02
ATOM	2915	C	PRO B 176	20.948	31.591	43.660	1.00	50.39
ATOM	2916	O	PRO B 176	20.519	30.621	43.014	1.00	47.83
ATOM	2917	CB	PRO B 176	19.396	33.337	44.710	1.00	50.20
ATOM	2918	CG	PRO B 176	20.376	34.422	45.091	1.00	50.70
ATOM	2919	CD	PRO B 176	20.961	33.882	46.359	1.00	49.69
ATOM	2920	N	GLY B 177	22.059	32.258	43.337	1.00	47.75
ATOM	2921	CA	GLY B 177	22.850	31.952	42.148	1.00	47.16
ATOM	2922	C	GLY B 177	23.165	30.506	41.804	1.00	45.71
ATOM	2923	O	GLY B 177	22.900	29.606	42.588	1.00	47.60
ATOM	2924	N	SER B 178	23.728	30.282	40.619	1.00	43.60
ATOM	2925	CA	SER B 178	24.076	28.932	40.193	1.00	43.10
ATOM	2926	C	SER B 178	25.095	28.918	39.050	1.00	43.56
ATOM	2927	O	SER B 178	24.824	29.411	37.971	1.00	43.22
ATOM	2928	CB	SER B 178	22.826	28.183	39.747	1.00	39.51
ATOM	2929	OG	SER B 178	22.526	28.477	38.402	1.00	34.64
ATOM	2930	N	VAL B 179	26.262	28.330	39.289	1.00	45.77
ATOM	2931	CA	VAL B 179	27.306	28.264	38.270	1.00	46.02
ATOM	2932	C	VAL B 179	27.315	26.956	37.512	1.00	46.19
ATOM	2933	O	VAL B 179	26.714	25.959	37.927	1.00	44.68
ATOM	2934	CB	VAL B 179	28.746	28.400	38.859	1.00	45.47
ATOM	2935	CG1	VAL B 179	28.953	29.756	39.480	1.00	48.69
ATOM	2936	CG2	VAL B 179	28.985	27.314	39.887	1.00	46.90
ATOM	2937	N	PRO B 180	27.992	26.960	36.360	1.00	46.10
ATOM	2938	CA	PRO B 180	28.136	25.794	35.496	1.00	45.73
ATOM	2939	C	PRO B 180	29.485	25.193	35.901	1.00	44.92
ATOM	2940	O	PRO B 180	30.411	25.927	36.237	1.00	45.44
ATOM	2941	CB	PRO B 180	28.139	26.411	34.107	1.00	45.35
ATOM	2942	CG	PRO B 180	28.863	27.670	34.324	1.00	45.28
ATOM	2943	CD	PRO B 180	28.293	28.195	35.615	1.00	46.10
ATOM	2944	N	ILE B 181	29.584	23.870	35.903	1.00	43.94
ATOM	2945	CA	ILE B 181	30.816	23.202	36.311	1.00	41.06
ATOM	2946	C	ILE B 181	31.527	22.580	35.140	1.00	40.15
ATOM	2947	O	ILE B 181	31.060	21.625	34.542	1.00	43.11
ATOM	2948	CB	ILE B 181	30.559	22.077	37.347	1.00	40.50
ATOM	2949	CG1	ILE B 181	29.886	22.640	38.601	1.00	40.13
ATOM	2950	CG2	ILE B 181	31.869	21.433	37.725	1.00	35.90
ATOM	2951	CD1	ILE B 181	29.420	21.570	39.551	1.00	40.35
ATOM	2952	N	PRO B 182	32.681	23.120	34.792	1.00	39.78
ATOM	2953	CA	PRO B 182	33.465	22.601	33.680	1.00	39.44
ATOM	2954	C	PRO B 182	33.984	21.213	34.003	1.00	39.12
ATOM	2955	O	PRO B 182	34.665	21.029	34.998	1.00	38.71
ATOM	2956	CB	PRO B 182	34.591	23.607	33.576	1.00	40.65
ATOM	2957	CG	PRO B 182	33.943	24.869	34.046	1.00	39.78
ATOM	2958	CD	PRO B 182	33.226	24.399	35.259	1.00	39.48
ATOM	2959	N	LEU B 183	33.661	20.233	33.173	1.00	41.03
ATOM	2960	CA	LEU B 183	34.138	18.873	33.409	1.00	40.92
ATOM	2961	C	LEU B 183	33.935	18.049	32.143	1.00	40.44
ATOM	2962	O	LEU B 183	32.808	17.833	31.676	1.00	39.48
ATOM	2963	CB	LEU B 183	33.392	18.245	34.591	1.00	42.61
ATOM	2964	CG	LEU B 183	34.071	17.166	35.445	1.00	43.36
ATOM	2965	CD1	LEU B 183	33.224	16.910	36.676	1.00	44.84
ATOM	2966	CD2	LEU B 183	34.241	15.888	34.663	1.00	45.53
ATOM	2967	N	THR B 184	35.052	17.606	31.583	1.00	39.84
ATOM	2968	CA	THR B 184	35.047	16.821	30.354	1.00	37.74
ATOM	2969	C	THR B 184	35.917	15.583	30.518	1.00	36.34
ATOM	2970	O	THR B 184	36.727	15.502	31.442	1.00	33.66
ATOM	2971	CB	THR B 184	35.588	17.663	29.174	1.00	37.20
ATOM	2972	OG1	THR B 184	36.715	18.428	29.624	1.00	40.55
ATOM	2973	CG2	THR B 184	34.524	18.617	28.645	1.00	29.15
ATOM	2974	N	VAL B 185	35.738	14.622	29.621	1.00	35.23

ATOM	2975	CA	VAL	B	185	36.512	13.387	29.657	1.00	37.88
ATOM	2976	C	VAL	B	185	36.998	13.040	28.276	1.00	39.26
ATOM	2977	O	VAL	B	185	36.223	13.092	27.330	1.00	41.57
ATOM	2978	CB	VAL	B	185	35.674	12.184	30.130	1.00	35.11
ATOM	2979	CG1	VAL	B	185	35.465	12.255	31.599	1.00	41.98
ATOM	2980	CG2	VAL	B	185	34.344	12.165	29.424	1.00	31.94
ATOM	2981	N	TYR	B	186	38.272	12.692	28.142	1.00	40.04
ATOM	2982	CA	TYR	B	186	38.763	12.301	26.833	1.00	44.05
ATOM	2983	C	TYR	B	186	39.482	10.978	26.970	1.00	47.09
ATOM	2984	O	TYR	B	186	40.385	10.835	27.796	1.00	52.23
ATOM	2985	CB	TYR	B	186	39.669	13.377	26.219	1.00	41.71
ATOM	2986	CG	TYR	B	186	41.001	13.561	26.883	1.00	45.27
ATOM	2987	CD1	TYR	B	186	42.077	12.725	26.581	1.00	47.94
ATOM	2988	CD2	TYR	B	186	41.204	14.593	27.792	1.00	49.44
ATOM	2989	CE1	TYR	B	186	43.331	12.919	27.168	1.00	51.07
ATOM	2990	CE2	TYR	B	186	42.451	14.799	28.388	1.00	52.69
ATOM	2991	CZ	TYR	B	186	43.514	13.961	28.072	1.00	52.86
ATOM	2992	OH	TYR	B	186	44.750	14.172	28.654	1.00	51.33
ATOM	2993	N	CYS	B	187	39.039	9.995	26.191	1.00	46.48
ATOM	2994	CA	CYS	B	187	39.636	8.672	26.218	1.00	44.19
ATOM	2995	C	CYS	B	187	40.567	8.555	25.023	1.00	44.78
ATOM	2996	O	CYS	B	187	40.193	8.923	23.916	1.00	46.06
ATOM	2997	CB	CYS	B	187	38.560	7.591	26.116	1.00	40.55
ATOM	2998	SG	CYS	B	187	37.245	7.621	27.378	1.00	41.54
ATOM	2999	N	ALA	B	188	41.774	8.041	25.252	1.00	43.05
ATOM	3000	CA	ALA	B	188	42.754	7.869	24.188	1.00	39.16
ATOM	3001	C	ALA	B	188	42.197	6.919	23.145	1.00	36.75
ATOM	3002	O	ALA	B	188	42.483	7.050	21.961	1.00	39.40
ATOM	3003	CB	ALA	B	188	44.038	7.323	24.753	1.00	38.60
ATOM	3004	N	LYS	B	189	41.413	5.956	23.603	1.00	32.91
ATOM	3005	CA	LYS	B	189	40.777	4.982	22.731	1.00	33.80
ATOM	3006	C	LYS	B	189	39.302	4.986	23.112	1.00	35.79
ATOM	3007	O	LYS	B	189	38.939	4.756	24.270	1.00	35.85
ATOM	3008	CB	LYS	B	189	41.350	3.579	22.942	1.00	31.54
ATOM	3009	CG	LYS	B	189	42.841	3.474	22.737	1.00	35.07
ATOM	3010	CD	LYS	B	189	43.223	3.555	21.267	1.00	40.82
ATOM	3011	CE	LYS	B	189	42.898	2.262	20.518	1.00	43.03
ATOM	3012	NZ	LYS	B	189	42.967	2.445	19.031	1.00	44.56
ATOM	3013	N	SER	B	190	38.457	5.267	22.131	1.00	36.12
ATOM	3014	CA	SER	B	190	37.027	5.320	22.337	1.00	35.64
ATOM	3015	C	SER	B	190	36.483	4.124	23.118	1.00	38.49
ATOM	3016	O	SER	B	190	36.820	2.964	22.852	1.00	42.48
ATOM	3017	CB	SER	B	190	36.325	5.433	20.985	1.00	34.72
ATOM	3018	OG	SER	B	190	34.937	5.178	21.092	1.00	40.45
ATOM	3019	N	GLN	B	191	35.637	4.435	24.094	1.00	38.52
ATOM	3020	CA	GLN	B	191	34.992	3.450	24.946	1.00	35.42
ATOM	3021	C	GLN	B	191	33.798	4.118	25.618	1.00	34.76
ATOM	3022	O	GLN	B	191	33.727	5.349	25.724	1.00	29.77
ATOM	3023	CB	GLN	B	191	35.968	2.946	26.006	1.00	35.25
ATOM	3024	CG	GLN	B	191	36.669	4.060	26.748	1.00	38.22
ATOM	3025	CD	GLN	B	191	37.423	3.567	27.946	1.00	36.76
ATOM	3026	OE1	GLN	B	191	36.842	2.973	28.843	1.00	40.40
ATOM	3027	NE2	GLN	B	191	38.723	3.811	27.972	1.00	37.71
ATOM	3028	N	ASN	B	192	32.861	3.293	26.067	1.00	34.36
ATOM	3029	CA	ASN	B	192	31.674	3.791	26.732	1.00	35.94
ATOM	3030	C	ASN	B	192	31.902	4.125	28.206	1.00	34.26
ATOM	3031	O	ASN	B	192	32.386	3.308	28.977	1.00	37.21
ATOM	3032	CB	ASN	B	192	30.557	2.763	26.625	1.00	39.35
ATOM	3033	CG	ASN	B	192	30.209	2.439	25.192	1.00	46.64
ATOM	3034	OD1	ASN	B	192	30.122	3.338	24.346	1.00	46.61
ATOM	3035	ND2	ASN	B	192	29.988	1.152	24.908	1.00	49.91
ATOM	3036	N	LEU	B	193	31.556	5.337	28.597	1.00	31.76

ATOM	3037	CA	LEU B 193	31.707	5.727	29.976	1.00	29.59
ATOM	3038	C	LEU B 193	30.352	5.832	30.630	1.00	31.28
ATOM	3039	O	LEU B 193	29.331	5.954	29.959	1.00	36.08
ATOM	3040	CB	LEU B 193	32.417	7.069	30.088	1.00	25.77
ATOM	3041	CG	LEU B 193	33.937	7.033	30.027	1.00	26.00
ATOM	3042	CD1	LEU B 193	34.497	8.426	30.286	1.00	27.46
ATOM	3043	CD2	LEU B 193	34.453	6.054	31.066	1.00	25.81
ATOM	3044	N	GLY B 194	30.355	5.774	31.953	1.00	32.20
ATOM	3045	CA	GLY B 194	29.133	5.903	32.721	1.00	32.16
ATOM	3046	C	GLY B 194	29.530	6.494	34.059	1.00	31.51
ATOM	3047	O	GLY B 194	30.523	6.054	34.647	1.00	28.07
ATOM	3048	N	TYR B 195	28.799	7.495	34.544	1.00	30.54
ATOM	3049	CA	TYR B 195	29.167	8.057	35.840	1.00	31.07
ATOM	3050	C	TYR B 195	28.015	8.290	36.818	1.00	28.45
ATOM	3051	O	TYR B 195	26.847	8.379	36.431	1.00	24.80
ATOM	3052	CB	TYR B 195	29.925	9.359	35.660	1.00	30.93
ATOM	3053	CG	TYR B 195	29.018	10.505	35.397	1.00	35.15
ATOM	3054	CD1	TYR B 195	28.368	10.627	34.174	1.00	37.22
ATOM	3055	CD2	TYR B 195	28.760	11.449	36.391	1.00	35.11
ATOM	3056	CE1	TYR B 195	27.473	11.661	33.944	1.00	39.81
ATOM	3057	CE2	TYR B 195	27.871	12.490	36.172	1.00	40.50
ATOM	3058	CZ	TYR B 195	27.224	12.589	34.946	1.00	40.05
ATOM	3059	OH	TYR B 195	26.305	13.586	34.732	1.00	40.28
ATOM	3060	N	TYR B 196	28.371	8.338	38.101	1.00	27.25
ATOM	3061	CA	TYR B 196	27.404	8.599	39.161	1.00	24.18
ATOM	3062	C	TYR B 196	28.056	9.368	40.296	1.00	19.50
ATOM	3063	O	TYR B 196	29.255	9.247	40.533	1.00	18.13
ATOM	3064	CB	TYR B 196	26.761	7.305	39.670	1.00	22.67
ATOM	3065	CG	TYR B 196	27.648	6.384	40.456	1.00	24.25
ATOM	3066	CD1	TYR B 196	28.088	6.715	41.739	1.00	25.39
ATOM	3067	CD2	TYR B 196	28.049	5.170	39.920	1.00	24.88
ATOM	3068	CE1	TYR B 196	28.911	5.852	42.463	1.00	25.84
ATOM	3069	CE2	TYR B 196	28.875	4.302	40.636	1.00	28.10
ATOM	3070	CZ	TYR B 196	29.303	4.647	41.900	1.00	25.77
ATOM	3071	OH	TYR B 196	30.130	3.793	42.575	1.00	27.39
ATOM	3072	N	LEU B 197	27.251	10.193	40.956	1.00	17.68
ATOM	3073	CA	LEU B 197	27.693	11.021	42.073	1.00	15.78
ATOM	3074	C	LEU B 197	27.431	10.295	43.392	1.00	15.32
ATOM	3075	O	LEU B 197	26.482	9.505	43.534	1.00	14.21
ATOM	3076	CB	LEU B 197	26.933	12.344	42.064	1.00	15.47
ATOM	3077	CG	LEU B 197	26.887	13.051	40.702	1.00	19.30
ATOM	3078	CD1	LEU B 197	25.852	14.184	40.726	1.00	14.39
ATOM	3079	CD2	LEU B 197	28.290	13.578	40.352	1.00	15.14
ATOM	3080	N	SER B 198	28.299	10.558	44.350	1.00	14.87
ATOM	3081	CA	SER B 198	28.200	9.960	45.670	1.00	15.43
ATOM	3082	C	SER B 198	28.565	11.043	46.644	1.00	15.04
ATOM	3083	O	SER B 198	29.406	11.900	46.353	1.00	15.45
ATOM	3084	CB	SER B 198	29.173	8.785	45.822	1.00	11.61
ATOM	3085	OG	SER B 198	30.479	9.138	45.395	1.00	14.19
ATOM	3086	N	GLY B 199	27.923	11.003	47.797	1.00	15.18
ATOM	3087	CA	GLY B 199	28.178	11.991	48.824	1.00	18.17
ATOM	3088	C	GLY B 199	27.054	11.921	49.819	1.00	17.96
ATOM	3089	O	GLY B 199	26.065	11.246	49.577	1.00	21.18
ATOM	3090	N	THR B 200	27.202	12.589	50.950	1.00	21.84
ATOM	3091	CA	THR B 200	26.136	12.565	51.941	1.00	22.91
ATOM	3092	C	THR B 200	24.975	13.363	51.396	1.00	21.14
ATOM	3093	O	THR B 200	25.147	14.385	50.743	1.00	21.25
ATOM	3094	CB	THR B 200	26.545	13.184	53.277	1.00	22.34
ATOM	3095	OG1	THR B 200	27.883	12.794	53.598	1.00	27.07
ATOM	3096	CG2	THR B 200	25.627	12.685	54.355	1.00	19.04
ATOM	3097	N	THR B 201	23.779	12.892	51.673	1.00	20.16
ATOM	3098	CA	THR B 201	22.626	13.568	51.167	1.00	19.61

ATOM	3099	C	THR	B	201	21.783	14.083	52.307	1.00	18.66
ATOM	3100	O	THR	B	201	21.957	13.672	53.449	1.00	17.83
ATOM	3101	CB	THR	B	201	21.875	12.616	50.250	1.00	21.03
ATOM	3102	OG1	THR	B	201	22.146	13.011	48.904	1.00	24.88
ATOM	3103	CG2	THR	B	201	20.362	12.596	50.534	1.00	22.65
ATOM	3104	N	ALA	B	202	20.865	14.983	51.992	1.00	15.57
ATOM	3105	CA	ALA	B	202	20.033	15.566	53.002	1.00	13.96
ATOM	3106	C	ALA	B	202	18.533	15.521	52.730	1.00	14.05
ATOM	3107	O	ALA	B	202	17.762	16.091	53.480	1.00	17.37
ATOM	3108	CB	ALA	B	202	20.477	16.992	53.182	1.00	14.65
ATOM	3109	N	ASP	B	203	18.103	14.849	51.675	1.00	15.50
ATOM	3110	CA	ASP	B	203	16.680	14.839	51.340	1.00	13.84
ATOM	3111	C	ASP	B	203	16.181	13.464	51.000	1.00	12.78
ATOM	3112	O	ASP	B	203	16.990	12.595	50.699	1.00	14.25
ATOM	3113	CB	ASP	B	203	16.421	15.777	50.161	1.00	19.64
ATOM	3114	CG	ASP	B	203	17.121	15.333	48.865	1.00	23.83
ATOM	3115	OD1	ASP	B	203	18.368	15.152	48.855	1.00	15.39
ATOM	3116	OD2	ASP	B	203	16.398	15.184	47.851	1.00	25.52
ATOM	3117	N	ALA	B	204	14.867	13.258	51.045	1.00	9.92
ATOM	3118	CA	ALA	B	204	14.321	11.939	50.722	1.00	11.08
ATOM	3119	C	ALA	B	204	14.636	11.555	49.284	1.00	13.36
ATOM	3120	O	ALA	B	204	14.914	10.385	48.994	1.00	18.04
ATOM	3121	CB	ALA	B	204	12.840	11.897	50.934	1.00	7.45
ATOM	3122	N	GLY	B	205	14.611	12.540	48.392	1.00	10.08
ATOM	3123	CA	GLY	B	205	14.904	12.280	46.997	1.00	12.60
ATOM	3124	C	GLY	B	205	16.375	12.092	46.682	1.00	14.43
ATOM	3125	O	GLY	B	205	16.764	11.982	45.523	1.00	12.08
ATOM	3126	N	ASN	B	206	17.196	12.094	47.724	1.00	19.44
ATOM	3127	CA	ASN	B	206	18.639	11.864	47.605	1.00	21.48
ATOM	3128	C	ASN	B	206	19.408	12.727	46.614	1.00	21.84
ATOM	3129	O	ASN	B	206	20.435	12.283	46.105	1.00	20.42
ATOM	3130	CB	ASN	B	206	18.881	10.398	47.241	1.00	20.76
ATOM	3131	CG	ASN	B	206	20.284	9.941	47.549	1.00	23.76
ATOM	3132	OD1	ASN	B	206	20.757	8.945	47.003	1.00	35.36
ATOM	3133	ND2	ASN	B	206	20.953	10.642	48.441	1.00	25.61
ATOM	3134	N	SER	B	207	18.958	13.949	46.353	1.00	22.16
ATOM	3135	CA	SER	B	207	19.674	14.763	45.383	1.00	25.83
ATOM	3136	C	SER	B	207	20.291	16.056	45.873	1.00	27.32
ATOM	3137	O	SER	B	207	21.011	16.715	45.129	1.00	28.96
ATOM	3138	CB	SER	B	207	18.773	15.057	44.187	1.00	26.06
ATOM	3139	OG	SER	B	207	17.534	15.567	44.612	1.00	33.10
ATOM	3140	N	ILE	B	208	20.025	16.431	47.117	1.00	31.17
ATOM	3141	CA	ILE	B	208	20.605	17.664	47.654	1.00	30.92
ATOM	3142	C	ILE	B	208	21.732	17.309	48.623	1.00	32.20
ATOM	3143	O	ILE	B	208	21.492	16.743	49.687	1.00	35.37
ATOM	3144	CB	ILE	B	208	19.543	18.502	48.362	1.00	25.82
ATOM	3145	CG1	ILE	B	208	18.309	18.596	47.466	1.00	21.24
ATOM	3146	CG2	ILE	B	208	20.100	19.875	48.665	1.00	21.38
ATOM	3147	CD1	ILE	B	208	17.110	19.122	48.154	1.00	24.08
ATOM	3148	N	PHE	B	209	22.963	17.623	48.229	1.00	33.72
ATOM	3149	CA	PHE	B	209	24.142	17.322	49.038	1.00	35.11
ATOM	3150	C	PHE	B	209	24.364	18.293	50.195	1.00	36.97
ATOM	3151	O	PHE	B	209	24.396	19.508	50.021	1.00	38.93
ATOM	3152	CB	PHE	B	209	25.385	17.257	48.144	1.00	30.89
ATOM	3153	CG	PHE	B	209	25.367	16.105	47.174	1.00	26.28
ATOM	3154	CD1	PHE	B	209	25.810	14.847	47.562	1.00	26.14
ATOM	3155	CD2	PHE	B	209	24.900	16.268	45.884	1.00	26.12
ATOM	3156	CE1	PHE	B	209	25.788	13.778	46.678	1.00	23.28
ATOM	3157	CE2	PHE	B	209	24.877	15.193	44.991	1.00	24.37
ATOM	3158	CZ	PHE	B	209	25.320	13.956	45.391	1.00	21.56
ATOM	3159	N	THR	B	210	24.516	17.727	51.382	1.00	38.52
ATOM	3160	CA	THR	B	210	24.690	18.484	52.604	1.00	42.50

ATOM	3161	C	THR	B	210	25.783	19.527	52.572	1.00	44.09
ATOM	3162	O	THR	B	210	26.735	19.417	51.804	1.00	40.80
ATOM	3163	CB	THR	B	210	24.965	17.548	53.766	1.00	44.85
ATOM	3164	OG1	THR	B	210	23.974	16.518	53.779	1.00	48.10
ATOM	3165	CG2	THR	B	210	24.894	18.306	55.075	1.00	50.23
ATOM	3166	N	ASN	B	211	25.635	20.536	53.432	1.00	48.50
ATOM	3167	CA	ASN	B	211	26.601	21.622	53.522	1.00	51.57
ATOM	3168	C	ASN	B	211	27.680	21.272	54.517	1.00	52.32
ATOM	3169	O	ASN	B	211	27.403	21.037	55.682	1.00	50.98
ATOM	3170	CB	ASN	B	211	25.926	22.927	53.953	1.00	53.36
ATOM	3171	CG	ASN	B	211	26.817	24.148	53.727	1.00	56.17
ATOM	3172	OD1	ASN	B	211	26.388	25.287	53.934	1.00	57.50
ATOM	3173	ND2	ASN	B	211	28.061	23.914	53.297	1.00	49.87
ATOM	3174	N	THR	B	212	28.911	21.228	54.030	1.00	56.92
ATOM	3175	CA	THR	B	212	30.084	20.915	54.834	1.00	60.01
ATOM	3176	C	THR	B	212	30.857	22.211	54.975	1.00	64.39
ATOM	3177	O	THR	B	212	31.378	22.726	53.986	1.00	67.15
ATOM	3178	CB	THR	B	212	30.982	19.909	54.114	1.00	58.27
ATOM	3179	OG1	THR	B	212	30.358	18.621	54.109	1.00	51.32
ATOM	3180	CG2	THR	B	212	32.332	19.833	54.788	1.00	61.86
ATOM	3181	N	ALA	B	213	30.945	22.744	56.184	1.00	66.65
ATOM	3182	CA	ALA	B	213	31.656	23.994	56.347	1.00	70.11
ATOM	3183	C	ALA	B	213	32.117	24.252	57.773	1.00	74.18
ATOM	3184	O	ALA	B	213	31.662	23.607	58.721	1.00	75.74
ATOM	3185	CB	ALA	B	213	30.777	25.132	55.862	1.00	68.90
ATOM	3186	N	SER	B	214	33.027	25.211	57.913	1.00	77.92
ATOM	3187	CA	SER	B	214	33.559	25.574	59.215	1.00	81.70
ATOM	3188	C	SER	B	214	32.948	26.868	59.760	1.00	83.87
ATOM	3189	O	SER	B	214	32.641	26.944	60.950	1.00	84.91
ATOM	3190	CB	SER	B	214	35.084	25.713	59.134	1.00	83.93
ATOM	3191	OG	SER	B	214	35.664	25.915	60.414	1.00	85.25
ATOM	3192	N	PHE	B	215	32.751	27.874	58.905	1.00	85.81
ATOM	3193	CA	PHE	B	215	32.196	29.147	59.373	1.00	88.82
ATOM	3194	C	PHE	B	215	30.725	29.456	59.122	1.00	88.10
ATOM	3195	O	PHE	B	215	30.311	29.774	58.000	1.00	85.18
ATOM	3196	CB	PHE	B	215	33.016	30.310	58.840	1.00	93.86
ATOM	3197	CG	PHE	B	215	32.713	31.625	59.513	1.00	100.68
ATOM	3198	CD1	PHE	B	215	32.525	31.690	60.895	1.00	104.17
ATOM	3199	CD2	PHE	B	215	32.625	32.800	58.771	1.00	103.47
ATOM	3200	CE1	PHE	B	215	32.251	32.908	61.530	1.00	106.77
ATOM	3201	CE2	PHE	B	215	32.352	34.025	59.395	1.00	106.01
ATOM	3202	CZ	PHE	B	215	32.165	34.077	60.778	1.00	106.75
ATOM	3203	N	SER	B	216	29.957	29.405	60.207	1.00	88.25
ATOM	3204	CA	SER	B	216	28.529	29.675	60.180	1.00	87.39
ATOM	3205	C	SER	B	216	27.846	28.860	59.103	1.00	84.62
ATOM	3206	O	SER	B	216	27.651	29.322	57.975	1.00	85.05
ATOM	3207	CB	SER	B	216	28.266	31.161	59.936	1.00	89.91
ATOM	3208	OG	SER	B	216	26.872	31.409	59.843	1.00	93.35
ATOM	3209	N	PRO	B	217	27.474	27.624	59.436	1.00	80.99
ATOM	3210	CA	PRO	B	217	26.810	26.794	58.438	1.00	77.99
ATOM	3211	C	PRO	B	217	25.462	27.375	58.043	1.00	73.97
ATOM	3212	O	PRO	B	217	24.462	27.109	58.699	1.00	73.56
ATOM	3213	CB	PRO	B	217	26.680	25.447	59.146	1.00	80.00
ATOM	3214	CG	PRO	B	217	26.515	25.847	60.578	1.00	79.24
ATOM	3215	CD	PRO	B	217	27.564	26.926	60.729	1.00	80.28
ATOM	3216	N	ALA	B	218	25.452	28.184	56.989	1.00	69.27
ATOM	3217	CA	ALA	B	218	24.221	28.773	56.492	1.00	65.55
ATOM	3218	C	ALA	B	218	23.195	27.655	56.373	1.00	63.76
ATOM	3219	O	ALA	B	218	22.920	27.171	55.286	1.00	64.60
ATOM	3220	CB	ALA	B	218	24.464	29.387	55.134	1.00	65.00
ATOM	3221	N	GLN	B	219	22.631	27.244	57.495	1.00	63.83
ATOM	3222	CA	GLN	B	219	21.654	26.168	57.512	1.00	64.28

ATOM	3223	C	GLN	B	219	20.462	26.441	56.612	1.00	62.09
ATOM	3224	O	GLN	B	219	20.010	27.583	56.495	1.00	61.69
ATOM	3225	CB	GLN	B	219	21.156	25.941	58.942	1.00	68.03
ATOM	3226	CG	GLN	B	219	20.116	24.831	59.069	1.00	72.66
ATOM	3227	CD	GLN	B	219	19.522	24.744	60.465	1.00	76.59
ATOM	3228	OE1	GLN	B	219	18.658	23.909	60.736	1.00	77.79
ATOM	3229	NE2	GLN	B	219	19.985	25.611	61.361	1.00	79.30
ATOM	3230	N	GLY	B	220	19.957	25.384	55.978	1.00	60.07
ATOM	3231	CA	GLY	B	220	18.792	25.518	55.115	1.00	55.52
ATOM	3232	C	GLY	B	220	18.972	25.166	53.649	1.00	50.89
ATOM	3233	O	GLY	B	220	18.036	24.693	52.999	1.00	49.27
ATOM	3234	N	VAL	B	221	20.175	25.384	53.134	1.00	46.75
ATOM	3235	CA	VAL	B	221	20.461	25.119	51.739	1.00	45.35
ATOM	3236	C	VAL	B	221	21.275	23.847	51.538	1.00	42.97
ATOM	3237	O	VAL	B	221	21.560	23.131	52.474	1.00	44.52
ATOM	3238	CB	VAL	B	221	21.233	26.296	51.127	1.00	47.50
ATOM	3239	CG1	VAL	B	221	21.132	26.257	49.612	1.00	49.89
ATOM	3240	CG2	VAL	B	221	20.692	27.601	51.661	1.00	46.43
ATOM	3241	N	GLY	B	222	21.630	23.573	50.292	1.00	40.73
ATOM	3242	CA	GLY	B	222	22.423	22.408	49.960	1.00	36.54
ATOM	3243	C	GLY	B	222	22.803	22.527	48.496	1.00	34.17
ATOM	3244	O	GLY	B	222	22.238	23.351	47.770	1.00	34.38
ATOM	3245	N	VAL	B	223	23.748	21.717	48.046	1.00	28.01
ATOM	3246	CA	VAL	B	223	24.154	21.782	46.657	1.00	23.72
ATOM	3247	C	VAL	B	223	23.544	20.637	45.849	1.00	22.05
ATOM	3248	O	VAL	B	223	23.656	19.466	46.224	1.00	17.30
ATOM	3249	CB	VAL	B	223	25.691	21.732	46.530	1.00	25.04
ATOM	3250	CG1	VAL	B	223	26.086	21.914	45.084	1.00	26.68
ATOM	3251	CG2	VAL	B	223	26.332	22.805	47.405	1.00	20.57
ATOM	3252	N	GLN	B	224	22.882	20.981	44.749	1.00	19.84
ATOM	3253	CA	GLN	B	224	22.272	19.979	43.882	1.00	20.62
ATOM	3254	C	GLN	B	224	22.887	20.130	42.507	1.00	19.78
ATOM	3255	O	GLN	B	224	23.001	21.243	42.022	1.00	23.01
ATOM	3256	CB	GLN	B	224	20.760	20.187	43.799	1.00	16.99
ATOM	3257	CG	GLN	B	224	20.046	19.290	42.796	1.00	17.95
ATOM	3258	CD	GLN	B	224	18.543	19.276	43.014	1.00	25.53
ATOM	3259	OE1	GLN	B	224	18.030	18.542	43.862	1.00	33.51
ATOM	3260	NE2	GLN	B	224	17.830	20.103	42.266	1.00	24.48
ATOM	3261	N	LEU	B	225	23.302	19.029	41.884	1.00	19.29
ATOM	3262	CA	LEU	B	225	23.893	19.130	40.558	1.00	16.75
ATOM	3263	C	LEU	B	225	22.915	18.701	39.488	1.00	17.73
ATOM	3264	O	LEU	B	225	22.182	17.727	39.613	1.00	15.27
ATOM	3265	CB	LEU	B	225	25.193	18.326	40.445	1.00	15.41
ATOM	3266	CG	LEU	B	225	26.155	18.565	41.606	1.00	21.13
ATOM	3267	CD1	LEU	B	225	27.497	18.042	41.242	1.00	20.96
ATOM	3268	CD2	LEU	B	225	26.236	20.039	41.942	1.00	23.28
ATOM	3269	N	THR	B	226	22.914	19.470	38.418	1.00	22.33
ATOM	3270	CA	THR	B	226	22.028	19.224	37.307	1.00	23.19
ATOM	3271	C	THR	B	226	22.838	19.168	36.012	1.00	22.02
ATOM	3272	O	THR	B	226	23.862	19.856	35.877	1.00	18.76
ATOM	3273	CB	THR	B	226	21.019	20.350	37.250	1.00	23.21
ATOM	3274	OG1	THR	B	226	20.233	20.225	36.065	1.00	32.95
ATOM	3275	CG2	THR	B	226	21.748	21.679	37.245	1.00	26.16
ATOM	3276	N	ARG	B	227	22.403	18.321	35.083	1.00	21.99
ATOM	3277	CA	ARG	B	227	23.079	18.201	33.793	1.00	26.46
ATOM	3278	C	ARG	B	227	22.050	18.624	32.761	1.00	30.18
ATOM	3279	O	ARG	B	227	21.137	17.871	32.443	1.00	32.18
ATOM	3280	CB	ARG	B	227	23.542	16.763	33.535	1.00	20.63
ATOM	3281	CG	ARG	B	227	22.470	15.699	33.683	1.00	22.11
ATOM	3282	CD	ARG	B	227	22.996	14.323	33.291	1.00	26.93
ATOM	3283	NE	ARG	B	227	21.926	13.447	32.815	1.00	30.75
ATOM	3284	CZ	ARG	B	227	21.164	12.693	33.600	1.00	35.99

ATOM	3285	NH1	ARG	B	227	21.356	12.694	34.911	1.00	41.55
ATOM	3286	NH2	ARG	B	227	20.193	11.950	33.079	1.00	35.46
ATOM	3287	N	ASN	B	228	22.182	19.850	32.263	1.00	35.07
ATOM	3288	CA	ASN	B	228	21.229	20.386	31.290	1.00	38.86
ATOM	3289	C	ASN	B	228	19.791	20.356	31.818	1.00	38.61
ATOM	3290	O	ASN	B	228	18.895	19.787	31.179	1.00	39.28
ATOM	3291	CB	ASN	B	228	21.302	19.598	29.984	1.00	42.73
ATOM	3292	CG	ASN	B	228	22.545	19.915	29.193	1.00	47.31
ATOM	3293	OD1	ASN	B	228	22.720	21.034	28.708	1.00	49.04
ATOM	3294	ND2	ASN	B	228	23.427	18.934	29.063	1.00	51.08
ATOM	3295	N	GLY	B	229	19.578	20.955	32.988	1.00	35.98
ATOM	3296	CA	GLY	B	229	18.245	20.994	33.566	1.00	31.50
ATOM	3297	C	GLY	B	229	17.743	19.722	34.222	1.00	27.58
ATOM	3298	O	GLY	B	229	16.701	19.738	34.877	1.00	24.24
ATOM	3299	N	THR	B	230	18.472	18.624	34.040	1.00	25.70
ATOM	3300	CA	THR	B	230	18.097	17.345	34.639	1.00	23.90
ATOM	3301	C	THR	B	230	18.833	17.120	35.954	1.00	24.27
ATOM	3302	O	THR	B	230	20.068	17.260	36.023	1.00	25.25
ATOM	3303	CB	THR	B	230	18.430	16.194	33.718	1.00	20.70
ATOM	3304	OG1	THR	B	230	17.662	16.323	32.529	1.00	26.17
ATOM	3305	CG2	THR	B	230	18.101	14.882	34.362	1.00	24.10
ATOM	3306	N	ILE	B	231	18.073	16.779	36.993	1.00	19.68
ATOM	3307	CA	ILE	B	231	18.664	16.532	38.291	1.00	21.01
ATOM	3308	C	ILE	B	231	19.402	15.203	38.316	1.00	21.78
ATOM	3309	O	ILE	B	231	18.989	14.231	37.682	1.00	22.97
ATOM	3310	CB	ILE	B	231	17.616	16.503	39.409	1.00	21.75
ATOM	3311	CG1	ILE	B	231	16.914	17.860	39.510	1.00	21.42
ATOM	3312	CG2	ILE	B	231	18.290	16.150	40.739	1.00	19.84
ATOM	3313	CD1	ILE	B	231	15.931	17.957	40.669	1.00	16.65
ATOM	3314	N	ILE	B	232	20.501	15.177	39.061	1.00	21.41
ATOM	3315	CA	ILE	B	232	21.333	13.988	39.191	1.00	17.37
ATOM	3316	C	ILE	B	232	21.362	13.508	40.643	1.00	16.65
ATOM	3317	O	ILE	B	232	22.153	13.976	41.452	1.00	17.02
ATOM	3318	CB	ILE	B	232	22.791	14.276	38.767	1.00	16.48
ATOM	3319	CG1	ILE	B	232	22.823	15.041	37.443	1.00	17.81
ATOM	3320	CG2	ILE	B	232	23.553	12.979	38.619	1.00	15.06
ATOM	3321	CD1	ILE	B	232	24.227	15.320	36.945	1.00	7.94
ATOM	3322	N	PRO	B	233	20.470	12.593	41.005	1.00	16.18
ATOM	3323	CA	PRO	B	233	20.543	12.154	42.397	1.00	14.87
ATOM	3324	C	PRO	B	233	21.786	11.310	42.579	1.00	13.69
ATOM	3325	O	PRO	B	233	22.385	10.880	41.608	1.00	10.80
ATOM	3326	CB	PRO	B	233	19.269	11.339	42.571	1.00	19.63
ATOM	3327	CG	PRO	B	233	18.954	10.877	41.149	1.00	16.87
ATOM	3328	CD	PRO	B	233	19.260	12.084	40.337	1.00	14.22
ATOM	3329	N	ALA	B	234	22.170	11.077	43.831	1.00	16.42
ATOM	3330	CA	ALA	B	234	23.342	10.270	44.150	1.00	14.64
ATOM	3331	C	ALA	B	234	23.111	8.851	43.689	1.00	16.88
ATOM	3332	O	ALA	B	234	21.977	8.366	43.709	1.00	18.74
ATOM	3333	CB	ALA	B	234	23.581	10.276	45.615	1.00	7.41
ATOM	3334	N	ASN	B	235	24.174	8.197	43.234	1.00	16.15
ATOM	3335	CA	ASN	B	235	24.073	6.807	42.823	1.00	18.92
ATOM	3336	C	ASN	B	235	23.034	6.530	41.769	1.00	18.48
ATOM	3337	O	ASN	B	235	22.227	5.639	41.935	1.00	19.49
ATOM	3338	CB	ASN	B	235	23.745	5.932	44.036	1.00	18.95
ATOM	3339	CG	ASN	B	235	24.555	6.303	45.256	1.00	23.03
ATOM	3340	OD1	ASN	B	235	23.990	6.751	46.263	1.00	25.75
ATOM	3341	ND2	ASN	B	235	25.888	6.130	45.177	1.00	19.58
ATOM	3342	N	ASN	B	236	23.053	7.285	40.684	1.00	23.41
ATOM	3343	CA	ASN	B	236	22.095	7.103	39.590	1.00	25.23
ATOM	3344	C	ASN	B	236	22.950	7.267	38.353	1.00	24.87
ATOM	3345	O	ASN	B	236	23.035	8.354	37.798	1.00	22.67
ATOM	3346	CB	ASN	B	236	21.021	8.197	39.649	1.00	30.11

ATOM	3347	CG	ASN	B	236	19.949	8.041	38.588	1.00	32.91
ATOM	3348	OD1	ASN	B	236	19.197	7.070	38.586	1.00	36.72
ATOM	3349	ND2	ASN	B	236	19.866	9.013	37.684	1.00	35.28
ATOM	3350	N	THR	B	237	23.599	6.182	37.950	1.00	24.53
ATOM	3351	CA	THR	B	237	24.495	6.189	36.812	1.00	25.30
ATOM	3352	C	THR	B	237	23.914	6.895	35.594	1.00	27.73
ATOM	3353	O	THR	B	237	22.791	6.630	35.179	1.00	28.26
ATOM	3354	CB	THR	B	237	24.856	4.766	36.425	1.00	22.87
ATOM	3355	OG1	THR	B	237	25.076	3.996	37.610	1.00	25.47
ATOM	3356	CG2	THR	B	237	26.112	4.754	35.591	1.00	22.70
ATOM	3357	N	VAL	B	238	24.694	7.808	35.036	1.00	28.45
ATOM	3358	CA	VAL	B	238	24.302	8.561	33.847	1.00	30.00
ATOM	3359	C	VAL	B	238	25.158	8.083	32.668	1.00	29.88
ATOM	3360	O	VAL	B	238	26.388	8.257	32.689	1.00	27.53
ATOM	3361	CB	VAL	B	238	24.543	10.098	34.037	1.00	30.42
ATOM	3362	CG1	VAL	B	238	24.333	10.830	32.728	1.00	29.07
ATOM	3363	CG2	VAL	B	238	23.600	10.660	35.072	1.00	28.74
ATOM	3364	N	SER	B	239	24.523	7.493	31.655	1.00	27.11
ATOM	3365	CA	SER	B	239	25.270	7.003	30.497	1.00	29.21
ATOM	3366	C	SER	B	239	25.805	8.149	29.703	1.00	26.10
ATOM	3367	O	SER	B	239	25.047	8.963	29.223	1.00	27.00
ATOM	3368	CB	SER	B	239	24.392	6.164	29.589	1.00	34.06
ATOM	3369	OG	SER	B	239	23.818	5.083	30.311	1.00	47.74
ATOM	3370	N	LEU	B	240	27.119	8.209	29.561	1.00	27.91
ATOM	3371	CA	LEU	B	240	27.763	9.285	28.821	1.00	29.39
ATOM	3372	C	LEU	B	240	27.982	8.923	27.352	1.00	33.90
ATOM	3373	O	LEU	B	240	28.588	9.692	26.590	1.00	34.01
ATOM	3374	CB	LEU	B	240	29.106	9.616	29.458	1.00	23.31
ATOM	3375	CG	LEU	B	240	29.179	11.011	30.060	1.00	23.75
ATOM	3376	CD1	LEU	B	240	30.610	11.288	30.464	1.00	25.63
ATOM	3377	CD2	LEU	B	240	28.701	12.046	29.059	1.00	20.92
ATOM	3378	N	GLY	B	241	27.481	7.749	26.965	1.00	37.27
ATOM	3379	CA	GLY	B	241	27.631	7.281	25.603	1.00	37.61
ATOM	3380	C	GLY	B	241	29.001	6.655	25.448	1.00	38.58
ATOM	3381	O	GLY	B	241	29.306	5.663	26.082	1.00	41.03
ATOM	3382	N	ALA	B	242	29.831	7.231	24.599	1.00	38.16
ATOM	3383	CA	ALA	B	242	31.160	6.704	24.407	1.00	38.66
ATOM	3384	C	ALA	B	242	32.042	7.909	24.233	1.00	39.13
ATOM	3385	O	ALA	B	242	31.837	8.713	23.329	1.00	35.62
ATOM	3386	CB	ALA	B	242	31.212	5.833	23.169	1.00	40.72
ATOM	3387	N	VAL	B	243	33.014	8.045	25.118	1.00	38.94
ATOM	3388	CA	VAL	B	243	33.915	9.162	25.038	1.00	38.48
ATOM	3389	C	VAL	B	243	35.084	8.758	24.169	1.00	39.59
ATOM	3390	O	VAL	B	243	35.551	7.630	24.246	1.00	40.90
ATOM	3391	CB	VAL	B	243	34.431	9.550	26.413	1.00	38.36
ATOM	3392	CG1	VAL	B	243	35.264	10.814	26.305	1.00	37.44
ATOM	3393	CG2	VAL	B	243	33.272	9.749	27.350	1.00	37.24
ATOM	3394	N	GLY	B	244	35.548	9.690	23.344	1.00	41.47
ATOM	3395	CA	GLY	B	244	36.664	9.422	22.463	1.00	41.89
ATOM	3396	C	GLY	B	244	37.769	10.450	22.583	1.00	43.79
ATOM	3397	O	GLY	B	244	38.098	10.893	23.683	1.00	42.40
ATOM	3398	N	THR	B	245	38.338	10.835	21.442	1.00	46.20
ATOM	3399	CA	THR	B	245	39.436	11.797	21.407	1.00	48.11
ATOM	3400	C	THR	B	245	38.961	13.214	21.682	1.00	48.25
ATOM	3401	O	THR	B	245	39.773	14.082	21.994	1.00	50.71
ATOM	3402	CB	THR	B	245	40.167	11.785	20.041	1.00	48.47
ATOM	3403	OG1	THR	B	245	39.373	12.466	19.060	1.00	58.28
ATOM	3404	CG2	THR	B	245	40.390	10.367	19.578	1.00	45.64
ATOM	3405	N	SER	B	246	37.651	13.439	21.565	1.00	48.48
ATOM	3406	CA	SER	B	246	37.045	14.752	21.801	1.00	47.12
ATOM	3407	C	SER	B	246	36.363	14.779	23.159	1.00	45.34
ATOM	3408	O	SER	B	246	35.292	14.198	23.325	1.00	47.08

ATOM	3409	CB	SER	B	246	36.009	15.052	20.724	1.00	46.88
ATOM	3410	OG	SER	B	246	36.594	15.004	19.442	1.00	53.99
ATOM	3411	N	ALA	B	247	36.974	15.460	24.122	1.00	42.07
ATOM	3412	CA	ALA	B	247	36.417	15.532	25.468	1.00	40.34
ATOM	3413	C	ALA	B	247	34.935	15.923	25.506	1.00	36.84
ATOM	3414	O	ALA	B	247	34.552	16.982	25.025	1.00	37.74
ATOM	3415	CB	ALA	B	247	37.242	16.502	26.327	1.00	40.36
ATOM	3416	N	VAL	B	248	34.110	15.051	26.068	1.00	32.26
ATOM	3417	CA	VAL	B	248	32.693	15.316	26.198	1.00	31.34
ATOM	3418	C	VAL	B	248	32.523	16.068	27.496	1.00	33.29
ATOM	3419	O	VAL	B	248	33.169	15.721	28.489	1.00	35.48
ATOM	3420	CB	VAL	B	248	31.886	14.031	26.356	1.00	31.34
ATOM	3421	CG1	VAL	B	248	30.404	14.353	26.438	1.00	28.79
ATOM	3422	CG2	VAL	B	248	32.176	13.100	25.225	1.00	33.36
ATOM	3423	N	SER	B	249	31.677	17.094	27.506	1.00	32.40
ATOM	3424	CA	SER	B	249	31.430	17.820	28.752	1.00	34.23
ATOM	3425	C	SER	B	249	30.243	17.138	29.384	1.00	34.27
ATOM	3426	O	SER	B	249	29.285	16.788	28.691	1.00	34.55
ATOM	3427	CB	SER	B	249	31.076	19.288	28.515	1.00	34.21
ATOM	3428	OG	SER	B	249	30.848	19.955	29.749	1.00	31.46
ATOM	3429	N	LEU	B	250	30.301	16.936	30.692	1.00	33.34
ATOM	3430	CA	LEU	B	250	29.194	16.290	31.371	1.00	33.82
ATOM	3431	C	LEU	B	250	28.000	17.260	31.435	1.00	31.74
ATOM	3432	O	LEU	B	250	26.870	16.836	31.662	1.00	29.19
ATOM	3433	CB	LEU	B	250	29.618	15.850	32.780	1.00	37.25
ATOM	3434	CG	LEU	B	250	30.942	15.092	32.967	1.00	38.75
ATOM	3435	CD1	LEU	B	250	31.016	14.614	34.423	1.00	38.86
ATOM	3436	CD2	LEU	B	250	31.055	13.917	32.001	1.00	32.58
ATOM	3437	N	GLY	B	251	28.276	18.550	31.226	1.00	29.86
ATOM	3438	CA	GLY	B	251	27.250	19.575	31.246	1.00	26.30
ATOM	3439	C	GLY	B	251	26.627	19.742	32.605	1.00	29.98
ATOM	3440	O	GLY	B	251	25.405	19.641	32.757	1.00	33.08
ATOM	3441	N	LEU	B	252	27.453	20.034	33.602	1.00	29.15
ATOM	3442	CA	LEU	B	252	26.954	20.165	34.966	1.00	29.53
ATOM	3443	C	LEU	B	252	26.816	21.581	35.483	1.00	29.61
ATOM	3444	O	LEU	B	252	27.577	22.464	35.116	1.00	29.47
ATOM	3445	CB	LEU	B	252	27.874	19.416	35.918	1.00	25.94
ATOM	3446	CG	LEU	B	252	28.269	18.010	35.503	1.00	23.83
ATOM	3447	CD1	LEU	B	252	29.432	17.552	36.395	1.00	22.24
ATOM	3448	CD2	LEU	B	252	27.064	17.097	35.576	1.00	11.02
ATOM	3449	N	THR	B	253	25.845	21.779	36.368	1.00	31.54
ATOM	3450	CA	THR	B	253	25.625	23.076	36.992	1.00	31.20
ATOM	3451	C	THR	B	253	25.400	22.845	38.473	1.00	28.75
ATOM	3452	O	THR	B	253	24.570	22.024	38.854	1.00	24.10
ATOM	3453	CB	THR	B	253	24.385	23.784	36.443	1.00	29.75
ATOM	3454	OG1	THR	B	253	24.475	23.864	35.024	1.00	36.05
ATOM	3455	CG2	THR	B	253	24.304	25.176	36.984	1.00	32.11
ATOM	3456	N	ALA	B	254	26.165	23.554	39.295	1.00	28.77
ATOM	3457	CA	ALA	B	254	26.027	23.473	40.743	1.00	27.42
ATOM	3458	C	ALA	B	254	24.854	24.396	41.066	1.00	28.43
ATOM	3459	O	ALA	B	254	24.877	25.585	40.738	1.00	29.03
ATOM	3460	CB	ALA	B	254	27.283	23.982	41.422	1.00	22.34
ATOM	3461	N	ASN	B	255	23.821	23.846	41.688	1.00	26.77
ATOM	3462	CA	ASN	B	255	22.649	24.629	42.033	1.00	25.09
ATOM	3463	C	ASN	B	255	22.399	24.598	43.502	1.00	25.36
ATOM	3464	O	ASN	B	255	22.644	23.580	44.154	1.00	27.57
ATOM	3465	CB	ASN	B	255	21.392	24.057	41.391	1.00	20.93
ATOM	3466	CG	ASN	B	255	21.524	23.893	39.936	1.00	20.24
ATOM	3467	OD1	ASN	B	255	20.534	23.784	39.230	1.00	21.15
ATOM	3468	ND2	ASN	B	255	22.755	23.862	39.457	1.00	28.01
ATOM	3469	N	TYR	B	256	21.893	25.704	44.031	1.00	25.89
ATOM	3470	CA	TYR	B	256	21.527	25.716	45.437	1.00	25.98

ATOM	3471	C	TYR	B	256	20.103	25.173	45.457	1.00	26.27
ATOM	3472	O	TYR	B	256	19.282	25.503	44.579	1.00	26.09
ATOM	3473	CB	TYR	B	256	21.530	27.125	46.030	1.00	23.07
ATOM	3474	CG	TYR	B	256	22.890	27.717	46.253	1.00	17.47
ATOM	3475	CD1	TYR	B	256	23.497	28.478	45.275	1.00	21.42
ATOM	3476	CD2	TYR	B	256	23.533	27.573	47.464	1.00	19.80
ATOM	3477	CE1	TYR	B	256	24.708	29.096	45.492	1.00	25.82
ATOM	3478	CE2	TYR	B	256	24.740	28.180	47.702	1.00	27.09
ATOM	3479	CZ	TYR	B	256	25.329	28.949	46.708	1.00	29.68
ATOM	3480	OH	TYR	B	256	26.538	29.583	46.935	1.00	35.08
ATOM	3481	N	ALA	B	257	19.831	24.306	46.424	1.00	25.76
ATOM	3482	CA	ALA	B	257	18.503	23.739	46.590	1.00	26.97
ATOM	3483	C	ALA	B	257	18.319	23.810	48.076	1.00	29.88
ATOM	3484	O	ALA	B	257	19.304	23.843	48.824	1.00	27.79
ATOM	3485	CB	ALA	B	257	18.457	22.316	46.124	1.00	26.33
ATOM	3486	N	ARG	B	258	17.068	23.867	48.507	1.00	32.79
ATOM	3487	CA	ARG	B	258	16.783	23.955	49.923	1.00	36.95
ATOM	3488	C	ARG	B	258	16.460	22.592	50.501	1.00	41.59
ATOM	3489	O	ARG	B	258	15.880	21.734	49.824	1.00	42.97
ATOM	3490	CB	ARG	B	258	15.614	24.895	50.159	1.00	34.51
ATOM	3491	CG	ARG	B	258	15.892	26.308	49.797	1.00	34.10
ATOM	3492	CD	ARG	B	258	14.604	27.068	49.793	1.00	40.30
ATOM	3493	NE	ARG	B	258	13.900	26.944	51.062	1.00	45.54
ATOM	3494	CZ	ARG	B	258	12.673	27.405	51.275	1.00	45.83
ATOM	3495	NH1	ARG	B	258	12.020	28.016	50.296	1.00	45.05
ATOM	3496	NH2	ARG	B	258	12.101	27.256	52.462	1.00	45.39
ATOM	3497	N	THR	B	259	16.831	22.413	51.763	1.00	45.40
ATOM	3498	CA	THR	B	259	16.601	21.178	52.484	1.00	49.55
ATOM	3499	C	THR	B	259	15.451	21.400	53.445	1.00	53.27
ATOM	3500	O	THR	B	259	14.326	20.979	53.181	1.00	53.14
ATOM	3501	CB	THR	B	259	17.850	20.784	53.274	1.00	51.17
ATOM	3502	OG1	THR	B	259	18.298	21.903	54.047	1.00	53.85
ATOM	3503	CG2	THR	B	259	18.964	20.375	52.336	1.00	53.79
ATOM	3504	N	GLY	B	260	15.742	22.079	54.554	1.00	59.47
ATOM	3505	CA	GLY	B	260	14.729	22.367	55.559	1.00	63.04
ATOM	3506	C	GLY	B	260	14.131	23.748	55.386	1.00	64.81
ATOM	3507	O	GLY	B	260	14.707	24.589	54.687	1.00	67.06
ATOM	3508	N	GLY	B	261	12.984	23.982	56.022	1.00	64.97
ATOM	3509	CA	GLY	B	261	12.318	25.273	55.922	1.00	66.35
ATOM	3510	C	GLY	B	261	12.825	26.406	56.814	1.00	65.91
ATOM	3511	O	GLY	B	261	12.132	26.837	57.742	1.00	68.21
ATOM	3512	N	GLN	B	262	14.027	26.902	56.534	1.00	63.10
ATOM	3513	CA	GLN	B	262	14.601	27.998	57.300	1.00	61.65
ATOM	3514	C	GLN	B	262	15.962	28.395	56.765	1.00	59.68
ATOM	3515	O	GLN	B	262	16.959	28.368	57.490	1.00	59.99
ATOM	3516	CB	GLN	B	262	14.737	27.629	58.778	1.00	64.32
ATOM	3517	CG	GLN	B	262	15.266	28.783	59.642	1.00	70.49
ATOM	3518	CD	GLN	B	262	14.427	30.062	59.523	1.00	73.38
ATOM	3519	OE1	GLN	B	262	14.826	31.132	60.002	1.00	72.47
ATOM	3520	NE2	GLN	B	262	13.258	29.953	58.887	1.00	73.90
ATOM	3521	N	VAL	B	263	16.004	28.762	55.491	1.00	56.87
ATOM	3522	CA	VAL	B	263	17.256	29.166	54.877	1.00	53.10
ATOM	3523	C	VAL	B	263	17.867	30.198	55.803	1.00	51.60
ATOM	3524	O	VAL	B	263	17.152	31.011	56.370	1.00	52.19
ATOM	3525	CB	VAL	B	263	17.009	29.772	53.498	1.00	51.96
ATOM	3526	CG1	VAL	B	263	18.327	30.090	52.827	1.00	53.71
ATOM	3527	CG2	VAL	B	263	16.212	28.800	52.653	1.00	50.97
ATOM	3528	N	THR	B	264	19.182	30.163	55.970	1.00	50.54
ATOM	3529	CA	THR	B	264	19.832	31.100	56.871	1.00	49.40
ATOM	3530	C	THR	B	264	21.236	31.508	56.483	1.00	53.02
ATOM	3531	O	THR	B	264	22.015	30.700	55.994	1.00	55.34
ATOM	3532	CB	THR	B	264	19.890	30.515	58.247	1.00	45.34

ATOM	3533	OG1	THR	B	264	18.552	30.285	58.698	1.00	45.94
ATOM	3534	CG2	THR	B	264	20.623	31.438	59.182	1.00	37.96
ATOM	3535	N	ALA	B	265	21.553	32.775	56.726	1.00	56.45
ATOM	3536	CA	ALA	B	265	22.861	33.343	56.414	1.00	58.56
ATOM	3537	C	ALA	B	265	23.999	32.394	56.732	1.00	60.05
ATOM	3538	O	ALA	B	265	23.888	31.546	57.621	1.00	62.69
ATOM	3539	CB	ALA	B	265	23.053	34.639	57.184	1.00	60.18
ATOM	3540	N	GLY	B	266	25.099	32.547	56.006	1.00	60.63
ATOM	3541	CA	GLY	B	266	26.256	31.695	56.231	1.00	62.15
ATOM	3542	C	GLY	B	266	26.915	31.147	54.971	1.00	61.14
ATOM	3543	O	GLY	B	266	26.484	31.425	53.848	1.00	58.42
ATOM	3544	N	ASN	B	267	27.970	30.361	55.160	1.00	61.40
ATOM	3545	CA	ASN	B	267	28.664	29.780	54.025	1.00	59.87
ATOM	3546	C	ASN	B	267	28.122	28.408	53.665	1.00	57.23
ATOM	3547	O	ASN	B	267	27.661	27.654	54.524	1.00	54.66
ATOM	3548	CB	ASN	B	267	30.166	29.706	54.293	1.00	63.27
ATOM	3549	CG	ASN	B	267	30.784	31.075	54.439	1.00	65.54
ATOM	3550	OD1	ASN	B	267	31.991	31.259	54.258	1.00	66.83
ATOM	3551	ND2	ASN	B	267	29.954	32.050	54.776	1.00	65.32
ATOM	3552	N	VAL	B	268	28.187	28.115	52.371	1.00	54.18
ATOM	3553	CA	VAL	B	268	27.708	26.865	51.802	1.00	52.08
ATOM	3554	C	VAL	B	268	28.810	26.238	50.954	1.00	50.93
ATOM	3555	O	VAL	B	268	29.116	26.714	49.862	1.00	48.73
ATOM	3556	CB	VAL	B	268	26.456	27.131	50.925	1.00	52.31
ATOM	3557	CG1	VAL	B	268	26.050	25.886	50.174	1.00	50.51
ATOM	3558	CG2	VAL	B	268	25.315	27.614	51.799	1.00	52.96
ATOM	3559	N	GLN	B	269	29.418	25.180	51.477	1.00	50.42
ATOM	3560	CA	GLN	B	269	30.482	24.473	50.771	1.00	52.20
ATOM	3561	C	GLN	B	269	30.122	22.995	50.687	1.00	51.96
ATOM	3562	O	GLN	B	269	29.523	22.448	51.611	1.00	52.85
ATOM	3563	CB	GLN	B	269	31.807	24.642	51.506	1.00	53.67
ATOM	3564	CG	GLN	B	269	32.561	25.889	51.132	1.00	56.02
ATOM	3565	CD	GLN	B	269	33.668	26.194	52.112	1.00	60.82
ATOM	3566	OE1	GLN	B	269	34.444	25.312	52.493	1.00	61.80
ATOM	3567	NE2	GLN	B	269	33.754	27.451	52.529	1.00	62.70
ATOM	3568	N	SER	B	270	30.494	22.343	49.591	1.00	49.83
ATOM	3569	CA	SER	B	270	30.150	20.938	49.434	1.00	46.51
ATOM	3570	C	SER	B	270	31.248	20.088	48.789	1.00	43.35
ATOM	3571	O	SER	B	270	32.113	20.589	48.070	1.00	38.87
ATOM	3572	CB	SER	B	270	28.846	20.827	48.627	1.00	45.30
ATOM	3573	OG	SER	B	270	28.221	19.575	48.831	1.00	46.76
ATOM	3574	N	ILE	B	271	31.191	18.789	49.065	1.00	41.68
ATOM	3575	CA	ILE	B	271	32.154	17.833	48.528	1.00	41.86
ATOM	3576	C	ILE	B	271	31.439	16.651	47.886	1.00	37.78
ATOM	3577	O	ILE	B	271	30.768	15.887	48.563	1.00	35.24
ATOM	3578	CB	ILE	B	271	33.071	17.322	49.637	1.00	45.74
ATOM	3579	CG1	ILE	B	271	32.230	17.035	50.895	1.00	46.72
ATOM	3580	CG2	ILE	B	271	34.191	18.342	49.886	1.00	48.20
ATOM	3581	CD1	ILE	B	271	33.000	16.418	52.066	1.00	43.04
ATOM	3582	N	ILE	B	272	31.594	16.506	46.576	1.00	35.93
ATOM	3583	CA	ILE	B	272	30.935	15.436	45.844	1.00	33.86
ATOM	3584	C	ILE	B	272	31.892	14.540	45.098	1.00	31.77
ATOM	3585	O	ILE	B	272	32.829	15.006	44.454	1.00	29.62
ATOM	3586	CB	ILE	B	272	29.960	15.988	44.796	1.00	36.56
ATOM	3587	CG1	ILE	B	272	28.954	16.923	45.456	1.00	40.60
ATOM	3588	CG2	ILE	B	272	29.256	14.849	44.098	1.00	38.34
ATOM	3589	CD1	ILE	B	272	28.337	16.344	46.676	1.00	39.64
ATOM	3590	N	GLY	B	273	31.631	13.245	45.162	1.00	28.75
ATOM	3591	CA	GLY	B	273	32.485	12.322	44.456	1.00	29.42
ATOM	3592	C	GLY	B	273	31.841	11.949	43.145	1.00	29.19
ATOM	3593	O	GLY	B	273	30.676	11.553	43.118	1.00	32.72
ATOM	3594	N	VAL	B	274	32.577	12.106	42.051	1.00	26.49

ATOM	3595	CA	VAL B 274	32.068	11.737	40.732	1.00	23.08
ATOM	3596	C	VAL B 274	32.808	10.436	40.387	1.00	24.68
ATOM	3597	O	VAL B 274	34.046	10.377	40.399	1.00	23.89
ATOM	3598	CB	VAL B 274	32.376	12.818	39.675	1.00	20.33
ATOM	3599	CG1	VAL B 274	31.451	12.651	38.486	1.00	18.23
ATOM	3600	CG2	VAL B 274	32.237	14.193	40.277	1.00	17.00
ATOM	3601	N	THR B 275	32.050	9.380	40.118	1.00	26.16
ATOM	3602	CA	THR B 275	32.650	8.083	39.821	1.00	28.51
ATOM	3603	C	THR B 275	32.348	7.650	38.405	1.00	28.27
ATOM	3604	O	THR B 275	31.181	7.439	38.037	1.00	25.47
ATOM	3605	CB	THR B 275	32.129	6.980	40.781	1.00	31.01
ATOM	3606	OG1	THR B 275	32.414	7.345	42.135	1.00	37.87
ATOM	3607	CG2	THR B 275	32.790	5.642	40.484	1.00	33.93
ATOM	3608	N	PHE B 276	33.414	7.519	37.622	1.00	25.59
ATOM	3609	CA	PHE B 276	33.304	7.096	36.244	1.00	22.02
ATOM	3610	C	PHE B 276	33.372	5.586	36.177	1.00	21.10
ATOM	3611	O	PHE B 276	34.303	4.975	36.681	1.00	19.36
ATOM	3612	CB	PHE B 276	34.415	7.722	35.424	1.00	16.98
ATOM	3613	CG	PHE B 276	34.237	9.183	35.213	1.00	20.83
ATOM	3614	CD1	PHE B 276	34.523	10.080	36.228	1.00	23.04
ATOM	3615	CD2	PHE B 276	33.785	9.670	33.991	1.00	22.48
ATOM	3616	CE1	PHE B 276	34.368	11.454	36.031	1.00	24.65
ATOM	3617	CE2	PHE B 276	33.622	11.036	33.783	1.00	23.18
ATOM	3618	CZ	PHE B 276	33.918	11.934	34.806	1.00	22.44
ATOM	3619	N	VAL B 277	32.365	4.987	35.562	1.00	22.57
ATOM	3620	CA	VAL B 277	32.299	3.538	35.454	1.00	23.53
ATOM	3621	C	VAL B 277	32.722	3.054	34.077	1.00	22.72
ATOM	3622	O	VAL B 277	32.161	3.481	33.072	1.00	23.26
ATOM	3623	CB	VAL B 277	30.874	3.039	35.729	1.00	23.55
ATOM	3624	CG1	VAL B 277	30.910	1.562	36.021	1.00	27.63
ATOM	3625	CG2	VAL B 277	30.260	3.803	36.885	1.00	19.68
ATOM	3626	N	TYR B 278	33.695	2.146	34.042	1.00	22.73
ATOM	3627	CA	TYR B 278	34.206	1.598	32.786	1.00	20.04
ATOM	3628	C	TYR B 278	33.542	0.299	32.387	1.00	21.13
ATOM	3629	O	TYR B 278	33.160	-0.494	33.246	1.00	23.63
ATOM	3630	CB	TYR B 278	35.704	1.379	32.890	1.00	16.69
ATOM	3631	CG	TYR B 278	36.444	2.674	33.057	1.00	17.53
ATOM	3632	CD1	TYR B 278	36.364	3.388	34.248	1.00	18.92
ATOM	3633	CD2	TYR B 278	37.129	3.245	31.989	1.00	12.17
ATOM	3634	CE1	TYR B 278	36.935	4.649	34.364	1.00	20.83
ATOM	3635	CE2	TYR B 278	37.703	4.496	32.088	1.00	16.81
ATOM	3636	CZ	TYR B 278	37.600	5.201	33.272	1.00	19.90
ATOM	3637	OH	TYR B 278	38.116	6.475	33.344	1.00	24.44
ATOM	3638	N	GLN B 279	33.396	0.079	31.081	1.00	21.58
ATOM	3639	CA	GLN B 279	32.785	-1.158	30.605	1.00	20.18
ATOM	3640	C	GLN B 279	33.787	-2.272	30.387	1.00	19.46
ATOM	3641	O	GLN B 279	33.448	-3.411	30.755	1.00	18.89
ATOM	3642	CB	GLN B 279	32.026	-0.944	29.308	1.00	23.74
ATOM	3643	CG	GLN B 279	31.239	-2.184	28.923	1.00	29.24
ATOM	3644	CD	GLN B 279	30.539	-2.096	27.584	1.00	33.98
ATOM	3645	OE1	GLN B 279	29.638	-2.895	27.318	1.00	34.96
ATOM	3646	NE2	GLN B 279	30.949	-1.143	26.730	1.00	30.73
ATOM	3647	OXT	GLN B 279	34.879	-2.003	29.831	1.00	19.19
ATOM	3648	N	GLY C 1	84.570	94.770	194.894	1.00	40.23
ATOM	3649	CA	GLY C 1	83.968	95.026	196.238	1.00	37.13
ATOM	3650	C	GLY C 1	82.762	94.162	196.546	1.00	34.01
ATOM	3651	O	GLY C 1	82.772	92.958	196.306	1.00	33.17
ATOM	3652	N	VAL C 2	81.716	94.786	197.076	1.00	30.87
ATOM	3653	CA	VAL C 2	80.494	94.072	197.430	1.00	26.56
ATOM	3654	C	VAL C 2	79.320	94.743	196.724	1.00	24.69
ATOM	3655	O	VAL C 2	79.198	95.959	196.760	1.00	26.34
ATOM	3656	CB	VAL C 2	80.300	94.076	198.973	1.00	23.07

ATOM	3657	CG1	VAL	C	2	79.019	93.396	199.351	1.00	20.73
ATOM	3658	CG2	VAL	C	2	81.460	93.357	199.634	1.00	19.64
ATOM	3659	N	ALA	C	3	78.474	93.956	196.056	1.00	25.21
ATOM	3660	CA	ALA	C	3	77.318	94.515	195.335	1.00	23.76
ATOM	3661	C	ALA	C	3	76.007	93.775	195.570	1.00	23.73
ATOM	3662	O	ALA	C	3	75.978	92.554	195.757	1.00	21.27
ATOM	3663	CB	ALA	C	3	77.598	94.579	193.847	1.00	19.79
ATOM	3664	N	LEU	C	4	74.921	94.540	195.555	1.00	23.63
ATOM	3665	CA	LEU	C	4	73.605	93.985	195.770	1.00	23.82
ATOM	3666	C	LEU	C	4	73.052	93.470	194.452	1.00	27.10
ATOM	3667	O	LEU	C	4	73.345	94.013	193.383	1.00	27.53
ATOM	3668	CB	LEU	C	4	72.689	95.046	196.358	1.00	20.91
ATOM	3669	CG	LEU	C	4	73.215	95.768	197.615	1.00	24.57
ATOM	3670	CD1	LEU	C	4	72.175	96.800	198.069	1.00	22.09
ATOM	3671	CD2	LEU	C	4	73.524	94.780	198.735	1.00	14.66
ATOM	3672	N	GLY	C	5	72.261	92.402	194.537	1.00	28.46
ATOM	3673	CA	GLY	C	5	71.672	91.803	193.352	1.00	27.42
ATOM	3674	C	GLY	C	5	70.672	92.676	192.612	1.00	27.21
ATOM	3675	O	GLY	C	5	70.474	92.495	191.417	1.00	27.80
ATOM	3676	N	ALA	C	6	70.032	93.607	193.319	1.00	27.28
ATOM	3677	CA	ALA	C	6	69.053	94.516	192.726	1.00	24.84
ATOM	3678	C	ALA	C	6	69.515	95.953	192.793	1.00	24.88
ATOM	3679	O	ALA	C	6	70.534	96.277	193.398	1.00	28.55
ATOM	3680	CB	ALA	C	6	67.752	94.400	193.437	1.00	21.63
ATOM	3681	N	THR	C	7	68.750	96.822	192.160	1.00	23.38
ATOM	3682	CA	THR	C	7	69.065	98.235	192.164	1.00	20.59
ATOM	3683	C	THR	C	7	67.925	98.914	192.880	1.00	18.94
ATOM	3684	O	THR	C	7	67.920	100.136	193.046	1.00	18.89
ATOM	3685	CB	THR	C	7	69.196	98.786	190.736	1.00	23.57
ATOM	3686	OG1	THR	C	7	68.078	98.349	189.936	1.00	25.26
ATOM	3687	CG2	THR	C	7	70.512	98.315	190.121	1.00	21.32
ATOM	3688	N	ARG	C	8	66.954	98.097	193.288	1.00	15.87
ATOM	3689	CA	ARG	C	8	65.785	98.555	194.029	1.00	14.85
ATOM	3690	C	ARG	C	8	65.055	97.324	194.532	1.00	14.43
ATOM	3691	O	ARG	C	8	65.412	96.196	194.183	1.00	11.38
ATOM	3692	CB	ARG	C	8	64.855	99.403	193.156	1.00	19.10
ATOM	3693	CG	ARG	C	8	63.831	98.621	192.332	1.00	21.38
ATOM	3694	CD	ARG	C	8	63.983	98.873	190.846	1.00	19.63
ATOM	3695	NE	ARG	C	8	63.922	100.289	190.464	1.00	18.41
ATOM	3696	CZ	ARG	C	8	64.985	101.081	190.366	1.00	14.03
ATOM	3697	NH1	ARG	C	8	66.193	100.606	190.621	1.00	16.70
ATOM	3698	NH2	ARG	C	8	64.847	102.343	190.009	1.00	11.57
ATOM	3699	N	VAL	C	9	64.036	97.536	195.358	1.00	12.99
ATOM	3700	CA	VAL	C	9	63.297	96.420	195.916	1.00	12.00
ATOM	3701	C	VAL	C	9	61.863	96.775	196.136	1.00	13.32
ATOM	3702	O	VAL	C	9	61.556	97.855	196.608	1.00	14.89
ATOM	3703	CB	VAL	C	9	63.878	95.975	197.270	1.00	13.24
ATOM	3704	CG1	VAL	C	9	62.870	95.110	198.013	1.00	11.49
ATOM	3705	CG2	VAL	C	9	65.178	95.179	197.045	1.00	11.03
ATOM	3706	N	ILE	C	10	60.984	95.840	195.799	1.00	13.75
ATOM	3707	CA	ILE	C	10	59.565	96.040	195.972	1.00	12.38
ATOM	3708	C	ILE	C	10	59.011	95.151	197.056	1.00	17.67
ATOM	3709	O	ILE	C	10	59.032	93.921	196.941	1.00	19.08
ATOM	3710	CB	ILE	C	10	58.804	95.749	194.709	1.00	4.40
ATOM	3711	CG1	ILE	C	10	59.302	96.648	193.601	1.00	6.22
ATOM	3712	CG2	ILE	C	10	57.333	96.011	194.942	1.00	10.13
ATOM	3713	CD1	ILE	C	10	59.271	98.110	193.957	1.00	8.95
ATOM	3714	N	TYR	C	11	58.506	95.780	198.113	1.00	18.91
ATOM	3715	CA	TYR	C	11	57.941	95.030	199.214	1.00	19.10
ATOM	3716	C	TYR	C	11	56.451	94.945	199.103	1.00	20.56
ATOM	3717	O	TYR	C	11	55.752	95.940	199.295	1.00	18.93
ATOM	3718	CB	TYR	C	11	58.268	95.653	200.557	1.00	16.88

ATOM	3719	CG	TYR	C	11	58.389	94.610	201.623	1.00	16.87
ATOM	3720	CD1	TYR	C	11	57.263	94.087	202.246	1.00	17.30
ATOM	3721	CD2	TYR	C	11	59.634	94.129	202.000	1.00	20.53
ATOM	3722	CE1	TYR	C	11	57.377	93.105	203.231	1.00	23.66
ATOM	3723	CE2	TYR	C	11	59.769	93.151	202.984	1.00	25.56
ATOM	3724	CZ	TYR	C	11	58.639	92.643	203.600	1.00	26.97
ATOM	3725	OH	TYR	C	11	58.787	91.709	204.601	1.00	23.86
ATOM	3726	N	PRO	C	12	55.945	93.738	198.794	1.00	22.80
ATOM	3727	CA	PRO	C	12	54.523	93.400	198.638	1.00	21.04
ATOM	3728	C	PRO	C	12	53.821	93.350	200.000	1.00	20.09
ATOM	3729	O	PRO	C	12	54.128	92.488	200.830	1.00	14.57
ATOM	3730	CB	PRO	C	12	54.557	92.020	197.976	1.00	20.12
ATOM	3731	CG	PRO	C	12	55.953	91.900	197.408	1.00	20.68
ATOM	3732	CD	PRO	C	12	56.799	92.594	198.420	1.00	22.26
ATOM	3733	N	ALA	C	13	52.881	94.265	200.219	1.00	22.43
ATOM	3734	CA	ALA	C	13	52.159	94.298	201.480	1.00	27.58
ATOM	3735	C	ALA	C	13	51.619	92.914	201.766	1.00	32.24
ATOM	3736	O	ALA	C	13	50.973	92.300	200.919	1.00	33.26
ATOM	3737	CB	ALA	C	13	51.027	95.296	201.419	1.00	30.11
ATOM	3738	N	GLY	C	14	51.898	92.424	202.967	1.00	38.06
ATOM	3739	CA	GLY	C	14	51.451	91.099	203.347	1.00	42.05
ATOM	3740	C	GLY	C	14	52.626	90.151	203.433	1.00	44.96
ATOM	3741	O	GLY	C	14	52.756	89.399	204.405	1.00	47.15
ATOM	3742	N	GLN	C	15	53.481	90.192	202.412	1.00	46.67
ATOM	3743	CA	GLN	C	15	54.672	89.346	202.341	1.00	49.38
ATOM	3744	C	GLN	C	15	55.364	89.158	203.684	1.00	48.91
ATOM	3745	O	GLN	C	15	55.766	90.129	204.324	1.00	49.13
ATOM	3746	CB	GLN	C	15	55.672	89.944	201.357	1.00	52.56
ATOM	3747	CG	GLN	C	15	55.491	89.475	199.943	1.00	59.49
ATOM	3748	CD	GLN	C	15	55.688	87.986	199.818	1.00	63.27
ATOM	3749	OE1	GLN	C	15	56.756	87.462	200.142	1.00	65.80
ATOM	3750	NE2	GLN	C	15	54.656	87.289	199.349	1.00	65.04
ATOM	3751	N	LYS	C	16	55.516	87.911	204.110	1.00	48.96
ATOM	3752	CA	LYS	C	16	56.173	87.657	205.382	1.00	48.92
ATOM	3753	C	LYS	C	16	57.603	88.162	205.315	1.00	46.51
ATOM	3754	O	LYS	C	16	58.128	88.599	206.322	1.00	47.06
ATOM	3755	CB	LYS	C	16	56.169	86.166	205.712	1.00	55.80
ATOM	3756	CG	LYS	C	16	56.318	85.848	207.208	1.00	62.66
ATOM	3757	CD	LYS	C	16	56.459	84.326	207.477	1.00	65.94
ATOM	3758	CE	LYS	C	16	55.295	83.500	206.916	1.00	63.60
ATOM	3759	NZ	LYS	C	16	53.993	83.904	207.503	1.00	64.91
ATOM	3760	N	GLN	C	17	58.229	88.094	204.137	1.00	43.50
ATOM	3761	CA	GLN	C	17	59.600	88.589	203.957	1.00	40.75
ATOM	3762	C	GLN	C	17	60.023	88.752	202.491	1.00	37.70
ATOM	3763	O	GLN	C	17	59.394	88.201	201.603	1.00	38.82
ATOM	3764	CB	GLN	C	17	60.582	87.664	204.644	1.00	40.52
ATOM	3765	CG	GLN	C	17	60.607	86.287	204.040	1.00	42.73
ATOM	3766	CD	GLN	C	17	61.917	85.573	204.312	1.00	44.48
ATOM	3767	OE1	GLN	C	17	62.365	85.482	205.470	1.00	45.27
ATOM	3768	NE2	GLN	C	17	62.547	85.063	203.250	1.00	35.33
ATOM	3769	N	VAL	C	18	61.086	89.514	202.252	1.00	34.71
ATOM	3770	CA	VAL	C	18	61.610	89.748	200.903	1.00	34.87
ATOM	3771	C	VAL	C	18	63.130	89.599	200.879	1.00	36.10
ATOM	3772	O	VAL	C	18	63.841	90.186	201.695	1.00	38.58
ATOM	3773	CB	VAL	C	18	61.264	91.150	200.388	1.00	35.61
ATOM	3774	CG1	VAL	C	18	62.003	91.416	199.098	1.00	33.31
ATOM	3775	CG2	VAL	C	18	59.773	91.271	200.161	1.00	39.12
ATOM	3776	N	GLN	C	19	63.626	88.842	199.911	1.00	34.28
ATOM	3777	CA	GLN	C	19	65.041	88.564	199.825	1.00	32.37
ATOM	3778	C	GLN	C	19	65.809	89.405	198.837	1.00	32.19
ATOM	3779	O	GLN	C	19	65.294	89.759	197.789	1.00	33.00
ATOM	3780	CB	GLN	C	19	65.214	87.083	199.519	1.00	31.09

ATOM	3781	CG	GLN	C	19	64.271	86.255	200.371	1.00	39.57
ATOM	3782	CD	GLN	C	19	64.563	84.771	200.358	1.00	46.71
ATOM	3783	OE1	GLN	C	19	64.019	84.016	201.177	1.00	49.40
ATOM	3784	NE2	GLN	C	19	65.419	84.336	199.431	1.00	48.06
ATOM	3785	N	LEU	C	20	67.046	89.736	199.201	1.00	31.36
ATOM	3786	CA	LEU	C	20	67.947	90.512	198.361	1.00	28.69
ATOM	3787	C	LEU	C	20	69.310	89.820	198.390	1.00	28.61
ATOM	3788	O	LEU	C	20	69.769	89.378	199.439	1.00	29.23
ATOM	3789	CB	LEU	C	20	68.077	91.939	198.888	1.00	28.45
ATOM	3790	CG	LEU	C	20	69.050	92.888	198.174	1.00	28.64
ATOM	3791	CD1	LEU	C	20	68.546	93.207	196.796	1.00	30.40
ATOM	3792	CD2	LEU	C	20	69.183	94.175	198.972	1.00	34.17
ATOM	3793	N	ALA	C	21	69.959	89.736	197.237	1.00	28.31
ATOM	3794	CA	ALA	C	21	71.255	89.081	197.137	1.00	26.28
ATOM	3795	C	ALA	C	21	72.435	90.034	197.336	1.00	26.93
ATOM	3796	O	ALA	C	21	72.410	91.186	196.891	1.00	28.79
ATOM	3797	CB	ALA	C	21	71.368	88.399	195.782	1.00	24.88
ATOM	3798	N	VAL	C	22	73.467	89.538	198.007	1.00	24.49
ATOM	3799	CA	VAL	C	22	74.682	90.300	198.253	1.00	22.89
ATOM	3800	C	VAL	C	22	75.845	89.411	197.875	1.00	24.89
ATOM	3801	O	VAL	C	22	75.845	88.217	198.160	1.00	21.56
ATOM	3802	CB	VAL	C	22	74.842	90.680	199.734	1.00	22.48
ATOM	3803	CG1	VAL	C	22	76.183	91.386	199.972	1.00	22.15
ATOM	3804	CG2	VAL	C	22	73.725	91.586	200.139	1.00	29.74
ATOM	3805	N	THR	C	23	76.838	89.990	197.223	1.00	27.30
ATOM	3806	CA	THR	C	23	77.986	89.210	196.836	1.00	31.32
ATOM	3807	C	THR	C	23	79.267	90.016	196.857	1.00	34.65
ATOM	3808	O	THR	C	23	79.291	91.186	196.490	1.00	34.57
ATOM	3809	CB	THR	C	23	77.800	88.577	195.452	1.00	32.38
ATOM	3810	OG1	THR	C	23	79.040	88.640	194.740	1.00	34.64
ATOM	3811	CG2	THR	C	23	76.708	89.278	194.677	1.00	32.00
ATOM	3812	N	ASN	C	24	80.325	89.347	197.305	1.00	36.96
ATOM	3813	CA	ASN	C	24	81.653	89.901	197.439	1.00	36.09
ATOM	3814	C	ASN	C	24	82.525	89.356	196.321	1.00	38.33
ATOM	3815	O	ASN	C	24	82.701	88.150	196.199	1.00	37.46
ATOM	3816	CB	ASN	C	24	82.208	89.502	198.807	1.00	33.48
ATOM	3817	CG	ASN	C	24	83.625	89.957	199.016	1.00	32.62
ATOM	3818	OD1	ASN	C	24	84.025	91.008	198.530	1.00	34.70
ATOM	3819	ND2	ASN	C	24	84.388	89.181	199.759	1.00	30.94
ATOM	3820	N	ASN	C	25	83.073	90.267	195.522	1.00	43.36
ATOM	3821	CA	ASN	C	25	83.923	89.947	194.374	1.00	47.19
ATOM	3822	C	ASN	C	25	85.383	89.780	194.697	1.00	48.59
ATOM	3823	O	ASN	C	25	86.104	89.089	193.989	1.00	50.77
ATOM	3824	CB	ASN	C	25	83.820	91.052	193.334	1.00	47.87
ATOM	3825	CG	ASN	C	25	82.409	91.297	192.906	1.00	52.01
ATOM	3826	OD1	ASN	C	25	81.472	91.011	193.651	1.00	52.29
ATOM	3827	ND2	ASN	C	25	82.235	91.843	191.705	1.00	55.98
ATOM	3828	N	ASP	C	26	85.823	90.440	195.753	1.00	50.87
ATOM	3829	CA	ASP	C	26	87.218	90.395	196.143	1.00	55.12
ATOM	3830	C	ASP	C	26	87.693	89.001	196.564	1.00	57.54
ATOM	3831	O	ASP	C	26	87.394	88.518	197.664	1.00	55.77
ATOM	3832	CB	ASP	C	26	87.441	91.438	197.235	1.00	56.11
ATOM	3833	CG	ASP	C	26	86.967	92.828	196.810	1.00	57.72
ATOM	3834	OD1	ASP	C	26	86.579	92.990	195.631	1.00	55.53
ATOM	3835	OD2	ASP	C	26	86.982	93.759	197.649	1.00	60.15
ATOM	3836	N	GLU	C	27	88.441	88.373	195.654	1.00	59.67
ATOM	3837	CA	GLU	C	27	88.985	87.028	195.832	1.00	63.30
ATOM	3838	C	GLU	C	27	89.594	86.770	197.197	1.00	61.98
ATOM	3839	O	GLU	C	27	89.805	85.619	197.579	1.00	60.90
ATOM	3840	CB	GLU	C	27	90.042	86.743	194.758	1.00	68.66
ATOM	3841	CG	GLU	C	27	89.566	85.829	193.629	1.00	78.71
ATOM	3842	CD	GLU	C	27	90.550	85.753	192.461	1.00	84.05

ATOM	3843	OE1	GLU	C	27	91.746	85.455	192.694	1.00	86.24
ATOM	3844	OE2	GLU	C	27	90.120	85.989	191.308	1.00	85.57
ATOM	3845	N	ASN	C	28	89.881	87.840	197.924	1.00	60.17
ATOM	3846	CA	ASN	C	28	90.483	87.710	199.236	1.00	59.98
ATOM	3847	C	ASN	C	28	90.485	89.040	199.988	1.00	58.97
ATOM	3848	O	ASN	C	28	91.247	89.967	199.688	1.00	58.70
ATOM	3849	CB	ASN	C	28	91.908	87.140	199.101	1.00	62.03
ATOM	3850	CG	ASN	C	28	92.744	87.856	198.036	1.00	62.38
ATOM	3851	OD1	ASN	C	28	93.823	87.387	197.673	1.00	58.82
ATOM	3852	ND2	ASN	C	28	92.253	88.993	197.542	1.00	62.76
ATOM	3853	N	SER	C	29	89.600	89.109	200.971	1.00	56.61
ATOM	3854	CA	SER	C	29	89.423	90.283	201.805	1.00	55.26
ATOM	3855	C	SER	C	29	88.045	90.137	202.444	1.00	53.13
ATOM	3856	O	SER	C	29	87.022	90.143	201.759	1.00	53.57
ATOM	3857	CB	SER	C	29	89.491	91.576	200.972	1.00	55.25
ATOM	3858	OG	SER	C	29	88.402	91.688	200.074	1.00	52.43
ATOM	3859	N	THR	C	30	88.030	89.989	203.759	1.00	48.90
ATOM	3860	CA	THR	C	30	86.790	89.827	204.482	1.00	46.54
ATOM	3861	C	THR	C	30	86.056	91.152	204.675	1.00	45.26
ATOM	3862	O	THR	C	30	86.654	92.222	204.607	1.00	45.40
ATOM	3863	CB	THR	C	30	87.069	89.182	205.841	1.00	46.08
ATOM	3864	OG1	THR	C	30	87.573	87.856	205.634	1.00	46.43
ATOM	3865	CG2	THR	C	30	85.811	89.111	206.677	1.00	49.01
ATOM	3866	N	TYR	C	31	84.745	91.069	204.878	1.00	42.91
ATOM	3867	CA	TYR	C	31	83.924	92.248	205.114	1.00	40.05
ATOM	3868	C	TYR	C	31	82.835	91.980	206.152	1.00	39.80
ATOM	3869	O	TYR	C	31	82.409	90.844	206.389	1.00	38.74
ATOM	3870	CB	TYR	C	31	83.239	92.734	203.835	1.00	39.36
ATOM	3871	CG	TYR	C	31	84.144	93.353	202.802	1.00	37.99
ATOM	3872	CD1	TYR	C	31	84.489	94.698	202.869	1.00	36.62
ATOM	3873	CD2	TYR	C	31	84.657	92.593	201.756	1.00	37.66
ATOM	3874	CE1	TYR	C	31	85.327	95.268	201.918	1.00	33.91
ATOM	3875	CE2	TYR	C	31	85.490	93.154	200.804	1.00	35.07
ATOM	3876	CZ	TYR	C	31	85.823	94.482	200.887	1.00	32.45
ATOM	3877	OH	TYR	C	31	86.656	95.005	199.931	1.00	32.03
ATOM	3878	N	LEU	C	32	82.390	93.060	206.770	1.00	37.65
ATOM	3879	CA	LEU	C	32	81.335	93.006	207.754	1.00	35.78
ATOM	3880	C	LEU	C	32	80.158	93.678	207.080	1.00	35.13
ATOM	3881	O	LEU	C	32	80.222	94.861	206.737	1.00	37.42
ATOM	3882	CB	LEU	C	32	81.748	93.780	208.995	1.00	35.66
ATOM	3883	CG	LEU	C	32	82.315	92.897	210.090	1.00	33.32
ATOM	3884	CD1	LEU	C	32	83.194	93.699	211.023	1.00	30.43
ATOM	3885	CD2	LEU	C	32	81.147	92.266	210.808	1.00	32.10
ATOM	3886	N	ILE	C	33	79.090	92.919	206.887	1.00	32.23
ATOM	3887	CA	ILE	C	33	77.906	93.420	206.220	1.00	28.53
ATOM	3888	C	ILE	C	33	76.799	93.899	207.133	1.00	29.47
ATOM	3889	O	ILE	C	33	76.064	93.093	207.703	1.00	30.21
ATOM	3890	CB	ILE	C	33	77.339	92.345	205.304	1.00	25.67
ATOM	3891	CG1	ILE	C	33	78.446	91.846	204.375	1.00	25.98
ATOM	3892	CG2	ILE	C	33	76.161	92.884	204.536	1.00	25.90
ATOM	3893	CD1	ILE	C	33	79.135	92.948	203.618	1.00	19.30
ATOM	3894	N	GLN	C	34	76.687	95.218	207.273	1.00	30.14
ATOM	3895	CA	GLN	C	34	75.625	95.813	208.079	1.00	30.99
ATOM	3896	C	GLN	C	34	74.583	96.398	207.126	1.00	30.50
ATOM	3897	O	GLN	C	34	74.915	97.081	206.160	1.00	31.49
ATOM	3898	CB	GLN	C	34	76.157	96.919	208.997	1.00	30.40
ATOM	3899	CG	GLN	C	34	76.803	96.434	210.287	1.00	28.02
ATOM	3900	CD	GLN	C	34	77.117	97.580	211.221	1.00	28.65
ATOM	3901	OE1	GLN	C	34	77.193	98.735	210.794	1.00	24.69
ATOM	3902	NE2	GLN	C	34	77.320	97.270	212.500	1.00	27.56
ATOM	3903	N	SER	C	35	73.319	96.129	207.413	1.00	29.08
ATOM	3904	CA	SER	C	35	72.240	96.596	206.570	1.00	26.33

ATOM	3905	C	SER	C	35	71.079	97.133	207.404	1.00	24.89
ATOM	3906	O	SER	C	35	70.797	96.601	208.473	1.00	21.07
ATOM	3907	CB	SER	C	35	71.788	95.424	205.705	1.00	28.18
ATOM	3908	OG	SER	C	35	72.542	94.267	206.047	1.00	28.70
ATOM	3909	N	TRP	C	36	70.426	98.190	206.914	1.00	24.11
ATOM	3910	CA	TRP	C	36	69.275	98.801	207.590	1.00	24.74
ATOM	3911	C	TRP	C	36	68.321	99.503	206.609	1.00	25.34
ATOM	3912	O	TRP	C	36	68.637	99.679	205.433	1.00	27.35
ATOM	3913	CB	TRP	C	36	69.735	99.800	208.652	1.00	21.15
ATOM	3914	CG	TRP	C	36	70.458	100.985	208.106	1.00	18.12
ATOM	3915	CD1	TRP	C	36	69.961	102.249	207.934	1.00	15.92
ATOM	3916	CD2	TRP	C	36	71.817	101.022	207.672	1.00	12.24
ATOM	3917	NE1	TRP	C	36	70.933	103.073	207.421	1.00	14.56
ATOM	3918	CE2	TRP	C	36	72.084	102.347	207.248	1.00	12.73
ATOM	3919	CE3	TRP	C	36	72.837	100.067	207.600	1.00	8.42
ATOM	3920	CZ2	TRP	C	36	73.339	102.741	206.753	1.00	8.42
ATOM	3921	CZ3	TRP	C	36	74.092	100.458	207.105	1.00	12.79
ATOM	3922	CH2	TRP	C	36	74.329	101.787	206.688	1.00	9.12
ATOM	3923	N	VAL	C	37	67.154	99.906	207.094	1.00	22.71
ATOM	3924	CA	VAL	C	37	66.197	100.559	206.228	1.00	21.07
ATOM	3925	C	VAL	C	37	65.730	101.916	206.751	1.00	22.78
ATOM	3926	O	VAL	C	37	65.019	102.006	207.753	1.00	28.65
ATOM	3927	CB	VAL	C	37	64.975	99.657	205.999	1.00	20.51
ATOM	3928	CG1	VAL	C	37	63.895	100.427	205.256	1.00	21.75
ATOM	3929	CG2	VAL	C	37	65.378	98.432	205.215	1.00	14.91
ATOM	3930	N	GLU	C	38	66.123	102.977	206.066	1.00	20.35
ATOM	3931	CA	GLU	C	38	65.719	104.307	206.470	1.00	20.46
ATOM	3932	C	GLU	C	38	64.407	104.623	205.767	1.00	21.87
ATOM	3933	O	GLU	C	38	64.033	103.937	204.815	1.00	23.74
ATOM	3934	CB	GLU	C	38	66.798	105.310	206.085	1.00	20.29
ATOM	3935	CG	GLU	C	38	68.132	105.017	206.729	1.00	18.11
ATOM	3936	CD	GLU	C	38	69.214	105.941	206.235	1.00	21.73
ATOM	3937	OE1	GLU	C	38	68.868	107.084	205.872	1.00	24.80
ATOM	3938	OE2	GLU	C	38	70.404	105.543	206.216	1.00	20.34
ATOM	3939	N	ASN	C	39	63.691	105.628	206.249	1.00	19.05
ATOM	3940	CA	ASN	C	39	62.441	105.975	205.611	1.00	23.23
ATOM	3941	C	ASN	C	39	62.683	107.151	204.655	1.00	26.82
ATOM	3942	O	ASN	C	39	63.813	107.614	204.509	1.00	22.47
ATOM	3943	CB	ASN	C	39	61.366	106.313	206.653	1.00	19.25
ATOM	3944	CG	ASN	C	39	61.638	107.611	207.382	1.00	16.67
ATOM	3945	OD1	ASN	C	39	62.683	108.213	207.219	1.00	24.93
ATOM	3946	ND2	ASN	C	39	60.696	108.043	208.195	1.00	16.03
ATOM	3947	N	ALA	C	40	61.624	107.609	203.994	1.00	30.25
ATOM	3948	CA	ALA	C	40	61.740	108.702	203.052	1.00	33.63
ATOM	3949	C	ALA	C	40	62.519	109.876	203.637	1.00	34.84
ATOM	3950	O	ALA	C	40	63.329	110.493	202.947	1.00	35.87
ATOM	3951	CB	ALA	C	40	60.355	109.152	202.617	1.00	35.55
ATOM	3952	N	ASP	C	41	62.283	110.193	204.903	1.00	34.98
ATOM	3953	CA	ASP	C	41	63.001	111.301	205.503	1.00	36.79
ATOM	3954	C	ASP	C	41	64.370	110.872	206.017	1.00	36.10
ATOM	3955	O	ASP	C	41	65.000	111.593	206.771	1.00	38.70
ATOM	3956	CB	ASP	C	41	62.192	111.919	206.644	1.00	39.95
ATOM	3957	CG	ASP	C	41	60.861	112.496	206.182	1.00	40.62
ATOM	3958	OD1	ASP	C	41	60.845	113.309	205.230	1.00	41.45
ATOM	3959	OD2	ASP	C	41	59.828	112.142	206.789	1.00	39.63
ATOM	3960	N	GLY	C	42	64.824	109.694	205.610	1.00	36.16
ATOM	3961	CA	GLY	C	42	66.131	109.208	206.028	1.00	34.42
ATOM	3962	C	GLY	C	42	66.307	108.934	207.512	1.00	34.58
ATOM	3963	O	GLY	C	42	67.428	108.926	208.031	1.00	36.02
ATOM	3964	N	VAL	C	43	65.209	108.709	208.213	1.00	32.14
ATOM	3965	CA	VAL	C	43	65.303	108.435	209.629	1.00	31.67
ATOM	3966	C	VAL	C	43	65.228	106.932	209.859	1.00	33.23

ATOM	3967	O	VAL	C	43	64.316	106.255	209.377	1.00	35.35
ATOM	3968	CB	VAL	C	43	64.178	109.144	210.413	1.00	29.27
ATOM	3969	CG1	VAL	C	43	63.970	110.546	209.866	1.00	25.85
ATOM	3970	CG2	VAL	C	43	62.903	108.348	210.339	1.00	33.13
ATOM	3971	N	LYS	C	44	66.210	106.408	210.583	1.00	34.40
ATOM	3972	CA	LYS	C	44	66.244	104.988	210.884	1.00	33.16
ATOM	3973	C	LYS	C	44	65.128	104.623	211.856	1.00	34.40
ATOM	3974	O	LYS	C	44	65.366	104.550	213.061	1.00	34.11
ATOM	3975	CB	LYS	C	44	67.575	104.602	211.525	1.00	30.34
ATOM	3976	CG	LYS	C	44	68.798	104.972	210.736	1.00	30.54
ATOM	3977	CD	LYS	C	44	69.985	104.149	211.197	1.00	32.93
ATOM	3978	CE	LYS	C	44	71.251	104.616	210.527	1.00	35.63
ATOM	3979	NZ	LYS	C	44	71.543	106.046	210.850	1.00	39.10
ATOM	3980	N	ASP	C	45	63.907	104.444	211.360	1.00	34.33
ATOM	3981	CA	ASP	C	45	62.825	104.031	212.244	1.00	33.37
ATOM	3982	C	ASP	C	45	62.808	102.535	212.110	1.00	36.22
ATOM	3983	O	ASP	C	45	63.723	101.952	211.514	1.00	39.94
ATOM	3984	CB	ASP	C	45	61.482	104.593	211.818	1.00	32.76
ATOM	3985	CG	ASP	C	45	61.313	104.611	210.336	1.00	29.90
ATOM	3986	OD1	ASP	C	45	61.567	103.573	209.686	1.00	32.40
ATOM	3987	OD2	ASP	C	45	60.921	105.675	209.828	1.00	28.70
ATOM	3988	N	GLY	C	46	61.774	101.890	212.613	1.00	34.86
ATOM	3989	CA	GLY	C	46	61.805	100.447	212.528	1.00	38.99
ATOM	3990	C	GLY	C	46	61.023	99.769	211.436	1.00	41.83
ATOM	3991	O	GLY	C	46	61.168	98.562	211.260	1.00	44.98
ATOM	3992	N	ARG	C	47	60.206	100.524	210.706	1.00	41.28
ATOM	3993	CA	ARG	C	47	59.374	99.954	209.661	1.00	36.11
ATOM	3994	C	ARG	C	47	59.901	98.678	209.040	1.00	31.18
ATOM	3995	O	ARG	C	47	59.148	97.743	208.816	1.00	33.85
ATOM	3996	CB	ARG	C	47	59.111	100.983	208.580	1.00	41.94
ATOM	3997	CG	ARG	C	47	57.881	101.819	208.844	1.00	52.31
ATOM	3998	CD	ARG	C	47	58.107	102.902	209.880	1.00	60.31
ATOM	3999	NE	ARG	C	47	56.832	103.494	210.275	1.00	66.91
ATOM	4000	CZ	ARG	C	47	55.854	102.802	210.847	1.00	70.37
ATOM	4001	NH1	ARG	C	47	56.018	101.509	211.081	1.00	73.77
ATOM	4002	NH2	ARG	C	47	54.720	103.395	211.193	1.00	72.57
ATOM	4003	N	PHE	C	48	61.190	98.616	208.764	1.00	26.20
ATOM	4004	CA	PHE	C	48	61.739	97.412	208.167	1.00	25.16
ATOM	4005	C	PHE	C	48	63.035	96.986	208.823	1.00	26.42
ATOM	4006	O	PHE	C	48	63.917	97.806	209.074	1.00	28.97
ATOM	4007	CB	PHE	C	48	61.976	97.616	206.659	1.00	24.45
ATOM	4008	CG	PHE	C	48	60.716	97.752	205.871	1.00	20.32
ATOM	4009	CD1	PHE	C	48	60.016	98.957	205.863	1.00	18.00
ATOM	4010	CD2	PHE	C	48	60.162	96.638	205.241	1.00	18.63
ATOM	4011	CE1	PHE	C	48	58.780	99.060	205.260	1.00	18.87
ATOM	4012	CE2	PHE	C	48	58.924	96.720	204.631	1.00	21.88
ATOM	4013	CZ	PHE	C	48	58.222	97.939	204.642	1.00	23.30
ATOM	4014	N	ILE	C	49	63.154	95.693	209.088	1.00	26.90
ATOM	4015	CA	ILE	C	49	64.358	95.159	209.693	1.00	28.54
ATOM	4016	C	ILE	C	49	64.961	94.068	208.815	1.00	29.19
ATOM	4017	O	ILE	C	49	64.254	93.170	208.346	1.00	32.25
ATOM	4018	CB	ILE	C	49	64.050	94.651	211.078	1.00	30.36
ATOM	4019	CG1	ILE	C	49	63.856	95.857	211.990	1.00	32.69
ATOM	4020	CG2	ILE	C	49	65.167	93.782	211.583	1.00	31.85
ATOM	4021	CD1	ILE	C	49	63.253	95.514	213.323	1.00	42.94
ATOM	4022	N	VAL	C	50	66.271	94.163	208.599	1.00	26.73
ATOM	4023	CA	VAL	C	50	67.010	93.242	207.742	1.00	25.02
ATOM	4024	C	VAL	C	50	67.836	92.237	208.509	1.00	27.24
ATOM	4025	O	VAL	C	50	68.511	92.594	209.468	1.00	30.34
ATOM	4026	CB	VAL	C	50	68.016	94.014	206.848	1.00	23.68
ATOM	4027	CG1	VAL	C	50	68.651	93.091	205.842	1.00	20.20
ATOM	4028	CG2	VAL	C	50	67.335	95.187	206.170	1.00	27.21

ATOM	4029	N	THR	C	51	67.797	90.982	208.079	1.00	30.21
ATOM	4030	CA	THR	C	51	68.624	89.942	208.693	1.00	29.42
ATOM	4031	C	THR	C	51	69.389	89.215	207.592	1.00	29.79
ATOM	4032	O	THR	C	51	68.894	89.040	206.476	1.00	27.63
ATOM	4033	CB	THR	C	51	67.818	88.872	209.473	1.00	28.74
ATOM	4034	OG1	THR	C	51	66.914	88.205	208.588	1.00	33.31
ATOM	4035	CG2	THR	C	51	67.055	89.490	210.610	1.00	28.87
ATOM	4036	N	PRO	C	52	70.621	88.794	207.897	1.00	31.69
ATOM	4037	CA	PRO	C	52	71.188	89.038	209.227	1.00	31.23
ATOM	4038	C	PRO	C	52	71.635	90.488	209.454	1.00	31.63
ATOM	4039	O	PRO	C	52	72.201	91.125	208.564	1.00	33.15
ATOM	4040	CB	PRO	C	52	72.330	88.025	209.302	1.00	29.83
ATOM	4041	CG	PRO	C	52	72.674	87.759	207.878	1.00	28.79
ATOM	4042	CD	PRO	C	52	71.358	87.728	207.193	1.00	28.71
ATOM	4043	N	PRO	C	53	71.375	91.030	210.656	1.00	31.48
ATOM	4044	CA	PRO	C	53	71.755	92.408	210.983	1.00	30.37
ATOM	4045	C	PRO	C	53	73.261	92.674	210.896	1.00	30.16
ATOM	4046	O	PRO	C	53	73.684	93.801	210.653	1.00	28.94
ATOM	4047	CB	PRO	C	53	71.201	92.584	212.394	1.00	28.24
ATOM	4048	CG	PRO	C	53	71.290	91.222	212.960	1.00	25.34
ATOM	4049	CD	PRO	C	53	70.796	90.363	211.835	1.00	29.03
ATOM	4050	N	LEU	C	54	74.064	91.631	211.087	1.00	30.49
ATOM	4051	CA	LEU	C	54	75.525	91.761	211.018	1.00	31.96
ATOM	4052	C	LEU	C	54	76.200	90.425	210.684	1.00	29.46
ATOM	4053	O	LEU	C	54	75.935	89.426	211.351	1.00	32.15
ATOM	4054	CB	LEU	C	54	76.075	92.267	212.359	1.00	31.36
ATOM	4055	CG	LEU	C	54	77.603	92.305	212.456	1.00	26.05
ATOM	4056	CD1	LEU	C	54	78.122	93.566	211.782	1.00	30.82
ATOM	4057	CD2	LEU	C	54	78.023	92.267	213.904	1.00	21.60
ATOM	4058	N	PHE	C	55	77.061	90.399	209.669	1.00	23.85
ATOM	4059	CA	PHE	C	55	77.754	89.159	209.322	1.00	24.11
ATOM	4060	C	PHE	C	55	78.983	89.379	208.468	1.00	26.66
ATOM	4061	O	PHE	C	55	79.207	90.470	207.961	1.00	31.25
ATOM	4062	CB	PHE	C	55	76.803	88.174	208.636	1.00	22.39
ATOM	4063	CG	PHE	C	55	76.294	88.631	207.301	1.00	23.54
ATOM	4064	CD1	PHE	C	55	75.196	89.481	207.212	1.00	23.87
ATOM	4065	CD2	PHE	C	55	76.928	88.231	206.127	1.00	24.83
ATOM	4066	CE1	PHE	C	55	74.736	89.930	205.975	1.00	22.10
ATOM	4067	CE2	PHE	C	55	76.478	88.673	204.880	1.00	24.98
ATOM	4068	CZ	PHE	C	55	75.377	89.529	204.806	1.00	22.96
ATOM	4069	N	ALA	C	56	79.802	88.350	208.308	1.00	30.53
ATOM	4070	CA	ALA	C	56	81.019	88.512	207.507	1.00	32.24
ATOM	4071	C	ALA	C	56	81.039	87.686	206.228	1.00	32.49
ATOM	4072	O	ALA	C	56	80.498	86.581	206.162	1.00	33.10
ATOM	4073	CB	ALA	C	56	82.257	88.190	208.353	1.00	28.20
ATOM	4074	N	MET	C	57	81.655	88.245	205.197	1.00	33.67
ATOM	4075	CA	MET	C	57	81.778	87.556	203.929	1.00	34.02
ATOM	4076	C	MET	C	57	83.249	87.514	203.637	1.00	35.78
ATOM	4077	O	MET	C	57	83.831	88.490	203.166	1.00	34.21
ATOM	4078	CB	MET	C	57	81.034	88.299	202.829	1.00	31.94
ATOM	4079	CG	MET	C	57	79.547	88.285	203.039	1.00	36.46
ATOM	4080	SD	MET	C	57	78.660	89.267	201.856	1.00	43.14
ATOM	4081	CE	MET	C	57	78.594	88.122	200.506	1.00	39.99
ATOM	4082	N	LYS	C	58	83.849	86.381	203.970	1.00	38.93
ATOM	4083	CA	LYS	C	58	85.268	86.178	203.751	1.00	44.54
ATOM	4084	C	LYS	C	58	85.439	85.872	202.283	1.00	43.21
ATOM	4085	O	LYS	C	58	85.034	84.813	201.828	1.00	45.14
ATOM	4086	CB	LYS	C	58	85.771	84.999	204.594	1.00	49.90
ATOM	4087	CG	LYS	C	58	85.527	85.164	206.099	1.00	56.25
ATOM	4088	CD	LYS	C	58	85.849	83.885	206.885	1.00	62.20
ATOM	4089	CE	LYS	C	58	87.353	83.591	206.932	1.00	64.60
ATOM	4090	NZ	LYS	C	58	87.679	82.378	207.751	1.00	63.82

ATOM	4091	N	GLY	C	59	86.021	86.810	201.548	1.00	42.97
ATOM	4092	CA	GLY	C	59	86.234	86.613	200.126	1.00	45.93
ATOM	4093	C	GLY	C	59	84.948	86.404	199.355	1.00	47.94
ATOM	4094	O	GLY	C	59	83.867	86.695	199.859	1.00	50.22
ATOM	4095	N	LYS	C	60	85.062	85.899	198.130	1.00	48.97
ATOM	4096	CA	LYS	C	60	83.897	85.656	197.286	1.00	49.23
ATOM	4097	C	LYS	C	60	82.880	84.760	197.975	1.00	50.37
ATOM	4098	O	LYS	C	60	83.188	83.619	198.334	1.00	51.88
ATOM	4099	CB	LYS	C	60	84.324	85.016	195.963	1.00	49.92
ATOM	4100	CG	LYS	C	60	85.070	85.966	195.023	1.00	51.78
ATOM	4101	CD	LYS	C	60	85.411	85.292	193.706	1.00	51.16
ATOM	4102	CE	LYS	C	60	85.736	86.304	192.621	1.00	54.39
ATOM	4103	NZ	LYS	C	60	87.019	87.020	192.840	1.00	57.61
ATOM	4104	N	LYS	C	61	81.680	85.303	198.172	1.00	48.20
ATOM	4105	CA	LYS	C	61	80.554	84.603	198.796	1.00	46.04
ATOM	4106	C	LYS	C	61	79.336	85.158	198.065	1.00	46.29
ATOM	4107	O	LYS	C	61	79.480	85.988	197.156	1.00	44.68
ATOM	4108	CB	LYS	C	61	80.423	84.949	200.289	1.00	44.89
ATOM	4109	CG	LYS	C	61	81.543	84.482	201.178	1.00	47.62
ATOM	4110	CD	LYS	C	61	81.564	82.965	201.303	1.00	54.26
ATOM	4111	CE	LYS	C	61	80.285	82.430	201.931	1.00	53.49
ATOM	4112	NZ	LYS	C	61	80.204	80.948	201.776	1.00	58.39
ATOM	4113	N	GLU	C	62	78.143	84.725	198.468	1.00	43.39
ATOM	4114	CA	GLU	C	62	76.928	85.219	197.840	1.00	42.61
ATOM	4115	C	GLU	C	62	75.768	84.902	198.778	1.00	41.82
ATOM	4116	O	GLU	C	62	75.005	83.975	198.525	1.00	45.64
ATOM	4117	CB	GLU	C	62	76.743	84.527	196.485	1.00	43.81
ATOM	4118	CG	GLU	C	62	75.826	85.225	195.482	1.00	51.07
ATOM	4119	CD	GLU	C	62	74.433	85.497	196.029	1.00	54.47
ATOM	4120	OE1	GLU	C	62	74.284	86.517	196.741	1.00	58.02
ATOM	4121	OE2	GLU	C	62	73.499	84.697	195.755	1.00	48.83
ATOM	4122	N	ASN	C	63	75.624	85.664	199.860	1.00	39.28
ATOM	4123	CA	ASN	C	63	74.546	85.378	200.804	1.00	37.72
ATOM	4124	C	ASN	C	63	73.247	86.100	200.495	1.00	35.28
ATOM	4125	O	ASN	C	63	73.152	86.834	199.520	1.00	34.01
ATOM	4126	CB	ASN	C	63	74.966	85.698	202.248	1.00	37.38
ATOM	4127	CG	ASN	C	63	76.402	85.371	202.519	1.00	35.02
ATOM	4128	OD1	ASN	C	63	77.258	86.240	202.427	1.00	34.54
ATOM	4129	ND2	ASN	C	63	76.683	84.110	202.839	1.00	34.32
ATOM	4130	N	THR	C	64	72.255	85.901	201.353	1.00	32.68
ATOM	4131	CA	THR	C	64	70.967	86.519	201.148	1.00	33.65
ATOM	4132	C	THR	C	64	70.511	87.437	202.270	1.00	33.17
ATOM	4133	O	THR	C	64	70.653	87.131	203.438	1.00	36.76
ATOM	4134	CB	THR	C	64	69.895	85.447	200.954	1.00	35.25
ATOM	4135	OG1	THR	C	64	70.331	84.516	199.957	1.00	34.24
ATOM	4136	CG2	THR	C	64	68.576	86.085	200.520	1.00	36.41
ATOM	4137	N	LEU	C	65	69.941	88.567	201.905	1.00	32.25
ATOM	4138	CA	LEU	C	65	69.447	89.484	202.899	1.00	33.52
ATOM	4139	C	LEU	C	65	67.944	89.343	203.016	1.00	35.11
ATOM	4140	O	LEU	C	65	67.265	89.193	202.005	1.00	37.13
ATOM	4141	CB	LEU	C	65	69.818	90.909	202.508	1.00	31.25
ATOM	4142	CG	LEU	C	65	71.309	91.153	202.684	1.00	28.01
ATOM	4143	CD1	LEU	C	65	71.646	92.622	202.505	1.00	23.91
ATOM	4144	CD2	LEU	C	65	71.690	90.697	204.076	1.00	30.50
ATOM	4145	N	ARG	C	66	67.418	89.385	204.240	1.00	35.71
ATOM	4146	CA	ARG	C	66	65.971	89.268	204.431	1.00	36.32
ATOM	4147	C	ARG	C	66	65.329	90.511	205.041	1.00	35.59
ATOM	4148	O	ARG	C	66	65.519	90.822	206.224	1.00	34.33
ATOM	4149	CB	ARG	C	66	65.624	88.044	205.286	1.00	38.22
ATOM	4150	CG	ARG	C	66	65.839	86.720	204.574	1.00	40.47
ATOM	4151	CD	ARG	C	66	66.972	85.933	205.208	1.00	46.60
ATOM	4152	NE	ARG	C	66	67.337	84.771	204.409	1.00	47.33

ATOM	4153	CZ	ARG	C	66	66.488	83.821	204.040	1.00	46.28
ATOM	4154	NH1	ARG	C	66	65.214	83.892	204.397	1.00	46.70
ATOM	4155	NH2	ARG	C	66	66.920	82.802	203.312	1.00	48.91
ATOM	4156	N	ILE	C	67	64.569	91.218	204.213	1.00	32.87
ATOM	4157	CA	ILE	C	67	63.881	92.410	204.651	1.00	34.18
ATOM	4158	C	ILE	C	67	62.596	91.985	205.346	1.00	35.33
ATOM	4159	O	ILE	C	67	61.786	91.257	204.778	1.00	35.97
ATOM	4160	CB	ILE	C	67	63.517	93.316	203.479	1.00	32.97
ATOM	4161	CG1	ILE	C	67	64.778	93.881	202.820	1.00	30.84
ATOM	4162	CG2	ILE	C	67	62.631	94.440	203.978	1.00	38.65
ATOM	4163	CD1	ILE	C	67	65.445	92.942	201.892	1.00	32.03
ATOM	4164	N	LEU	C	68	62.400	92.441	206.573	1.00	34.37
ATOM	4165	CA	LEU	C	68	61.216	92.042	207.293	1.00	36.39
ATOM	4166	C	LEU	C	68	60.248	93.185	207.556	1.00	39.68
ATOM	4167	O	LEU	C	68	60.637	94.246	208.062	1.00	40.96
ATOM	4168	CB	LEU	C	68	61.609	91.381	208.618	1.00	36.50
ATOM	4169	CG	LEU	C	68	62.533	90.162	208.601	1.00	36.38
ATOM	4170	CD1	LEU	C	68	62.514	89.539	209.970	1.00	35.10
ATOM	4171	CD2	LEU	C	68	62.076	89.137	207.566	1.00	39.99
ATOM	4172	N	ASP	C	69	58.982	92.955	207.212	1.00	39.91
ATOM	4173	CA	ASP	C	69	57.939	93.944	207.418	1.00	39.96
ATOM	4174	C	ASP	C	69	57.784	94.101	208.922	1.00	38.07
ATOM	4175	O	ASP	C	69	57.633	93.113	209.621	1.00	37.62
ATOM	4176	CB	ASP	C	69	56.644	93.446	206.779	1.00	42.54
ATOM	4177	CG	ASP	C	69	55.502	94.444	206.900	1.00	49.16
ATOM	4178	OD1	ASP	C	69	55.640	95.449	207.641	1.00	49.24
ATOM	4179	OD2	ASP	C	69	54.456	94.210	206.248	1.00	53.48
ATOM	4180	N	ALA	C	70	57.840	95.326	209.426	1.00	37.89
ATOM	4181	CA	ALA	C	70	57.705	95.531	210.860	1.00	42.77
ATOM	4182	C	ALA	C	70	56.559	96.452	211.181	1.00	46.12
ATOM	4183	O	ALA	C	70	56.127	96.528	212.327	1.00	46.75
ATOM	4184	CB	ALA	C	70	58.984	96.092	211.453	1.00	42.67
ATOM	4185	N	THR	C	71	56.068	97.164	210.178	1.00	50.07
ATOM	4186	CA	THR	C	71	54.949	98.064	210.415	1.00	56.27
ATOM	4187	C	THR	C	71	53.627	97.322	210.269	1.00	61.59
ATOM	4188	O	THR	C	71	53.062	97.258	209.170	1.00	63.62
ATOM	4189	CB	THR	C	71	54.950	99.245	209.437	1.00	55.20
ATOM	4190	OG1	THR	C	71	53.753	100.015	209.637	1.00	52.69
ATOM	4191	CG2	THR	C	71	55.046	98.749	207.988	1.00	50.49
ATOM	4192	N	ASN	C	72	53.137	96.755	211.369	1.00	64.77
ATOM	4193	CA	ASN	C	72	51.883	96.014	211.327	1.00	69.68
ATOM	4194	C	ASN	C	72	50.791	96.849	210.689	1.00	69.93
ATOM	4195	O	ASN	C	72	50.047	97.534	211.380	1.00	69.22
ATOM	4196	CB	ASN	C	72	51.463	95.578	212.736	1.00	75.36
ATOM	4197	CG	ASN	C	72	52.138	94.275	213.170	1.00	80.44
ATOM	4198	OD1	ASN	C	72	51.816	93.703	214.222	1.00	79.61
ATOM	4199	ND2	ASN	C	72	53.082	93.800	212.354	1.00	82.34
ATOM	4200	N	ASN	C	73	50.705	96.773	209.363	1.00	71.66
ATOM	4201	CA	ASN	C	73	49.727	97.531	208.586	1.00	73.33
ATOM	4202	C	ASN	C	73	49.467	98.916	209.167	1.00	72.94
ATOM	4203	O	ASN	C	73	48.321	99.369	209.241	1.00	73.03
ATOM	4204	CB	ASN	C	73	48.412	96.758	208.475	1.00	75.69
ATOM	4205	CG	ASN	C	73	48.405	95.792	207.308	1.00	77.75
ATOM	4206	OD1	ASN	C	73	49.200	94.852	207.257	1.00	79.06
ATOM	4207	ND2	ASN	C	73	47.504	96.024	206.357	1.00	77.80
ATOM	4208	N	GLN	C	74	50.540	99.581	209.579	1.00	70.66
ATOM	4209	CA	GLN	C	74	50.431	100.905	210.151	1.00	69.32
ATOM	4210	C	GLN	C	74	50.764	101.928	209.076	1.00	66.73
ATOM	4211	O	GLN	C	74	50.901	103.116	209.359	1.00	68.20
ATOM	4212	CB	GLN	C	74	51.377	101.022	211.351	1.00	74.55
ATOM	4213	CG	GLN	C	74	51.053	99.997	212.462	1.00	83.42
ATOM	4214	CD	GLN	C	74	52.034	99.994	213.642	1.00	87.65

ATOM	4215	OE1	GLN	C	74	51.973	99.111	214.512	1.00	85.10
ATOM	4216	NE2	GLN	C	74	52.934	100.979	213.678	1.00	89.84
ATOM	4217	N	LEU	C	75	50.866	101.454	207.835	1.00	62.84
ATOM	4218	CA	LEU	C	75	51.190	102.303	206.686	1.00	58.91
ATOM	4219	C	LEU	C	75	50.043	102.495	205.704	1.00	58.51
ATOM	4220	O	LEU	C	75	49.065	101.747	205.711	1.00	59.50
ATOM	4221	CB	LEU	C	75	52.357	101.709	205.895	1.00	55.77
ATOM	4222	CG	LEU	C	75	53.811	102.072	206.196	1.00	54.57
ATOM	4223	CD1	LEU	C	75	54.683	101.248	205.275	1.00	53.04
ATOM	4224	CD2	LEU	C	75	54.075	103.554	205.987	1.00	51.10
ATOM	4225	N	PRO	C	76	50.163	103.508	204.830	1.00	56.67
ATOM	4226	CA	PRO	C	76	49.163	103.826	203.810	1.00	54.88
ATOM	4227	C	PRO	C	76	48.909	102.614	202.923	1.00	54.32
ATOM	4228	O	PRO	C	76	49.849	102.068	202.355	1.00	56.64
ATOM	4229	CB	PRO	C	76	49.822	104.960	203.041	1.00	52.03
ATOM	4230	CG	PRO	C	76	50.523	105.695	204.114	1.00	53.03
ATOM	4231	CD	PRO	C	76	51.171	104.579	204.906	1.00	57.47
ATOM	4232	N	GLN	C	77	47.647	102.205	202.799	1.00	53.64
ATOM	4233	CA	GLN	C	77	47.288	101.050	201.979	1.00	53.31
ATOM	4234	C	GLN	C	77	46.767	101.402	200.597	1.00	50.66
ATOM	4235	O	GLN	C	77	46.421	100.512	199.825	1.00	51.70
ATOM	4236	CB	GLN	C	77	46.233	100.194	202.682	1.00	56.86
ATOM	4237	CG	GLN	C	77	46.717	99.518	203.942	1.00	64.64
ATOM	4238	CD	GLN	C	77	47.863	98.559	203.693	1.00	69.43
ATOM	4239	OE1	GLN	C	77	48.440	98.014	204.636	1.00	74.63
ATOM	4240	NE2	GLN	C	77	48.199	98.344	202.422	1.00	70.90
ATOM	4241	N	ASP	C	78	46.706	102.686	200.275	1.00	47.83
ATOM	4242	CA	ASP	C	78	46.201	103.089	198.968	1.00	45.67
ATOM	4243	C	ASP	C	78	47.308	103.507	198.015	1.00	43.40
ATOM	4244	O	ASP	C	78	47.036	104.048	196.938	1.00	38.05
ATOM	4245	CB	ASP	C	78	45.206	104.247	199.107	1.00	46.95
ATOM	4246	CG	ASP	C	78	45.886	105.584	199.372	1.00	50.86
ATOM	4247	OD1	ASP	C	78	46.975	105.603	199.990	1.00	55.00
ATOM	4248	OD2	ASP	C	78	45.322	106.625	198.965	1.00	50.16
ATOM	4249	N	ARG	C	79	48.554	103.254	198.406	1.00	43.04
ATOM	4250	CA	ARG	C	79	49.679	103.658	197.575	1.00	41.62
ATOM	4251	C	ARG	C	79	50.979	103.219	198.199	1.00	38.40
ATOM	4252	O	ARG	C	79	51.004	102.776	199.340	1.00	38.69
ATOM	4253	CB	ARG	C	79	49.705	105.176	197.463	1.00	41.64
ATOM	4254	CG	ARG	C	79	50.102	105.814	198.776	1.00	38.50
ATOM	4255	CD	ARG	C	79	49.761	107.272	198.812	1.00	42.08
ATOM	4256	NE	ARG	C	79	48.383	107.469	199.221	1.00	37.90
ATOM	4257	CZ	ARG	C	79	47.754	108.633	199.161	1.00	40.55
ATOM	4258	NH1	ARG	C	79	48.388	109.709	198.706	1.00	38.34
ATOM	4259	NH2	ARG	C	79	46.489	108.720	199.551	1.00	41.48
ATOM	4260	N	GLU	C	80	52.056	103.397	197.442	1.00	36.01
ATOM	4261	CA	GLU	C	80	53.409	103.054	197.874	1.00	34.49
ATOM	4262	C	GLU	C	80	54.031	104.076	198.844	1.00	31.41
ATOM	4263	O	GLU	C	80	53.728	105.265	198.815	1.00	29.00
ATOM	4264	CB	GLU	C	80	54.336	102.941	196.652	1.00	33.97
ATOM	4265	CG	GLU	C	80	54.233	101.672	195.827	1.00	30.17
ATOM	4266	CD	GLU	C	80	55.124	101.727	194.599	1.00	28.39
ATOM	4267	OE1	GLU	C	80	55.590	102.833	194.252	1.00	23.94
ATOM	4268	OE2	GLU	C	80	55.350	100.669	193.973	1.00	28.55
ATOM	4269	N	SER	C	81	54.912	103.591	199.703	1.00	30.21
ATOM	4270	CA	SER	C	81	55.614	104.454	200.634	1.00	28.76
ATOM	4271	C	SER	C	81	57.087	104.272	200.295	1.00	27.57
ATOM	4272	O	SER	C	81	57.534	103.147	200.054	1.00	29.87
ATOM	4273	CB	SER	C	81	55.322	104.020	202.064	1.00	30.30
ATOM	4274	OG	SER	C	81	53.945	104.189	202.368	1.00	32.53
ATOM	4275	N	LEU	C	82	57.843	105.364	200.247	1.00	24.38
ATOM	4276	CA	LEU	C	82	59.264	105.260	199.894	1.00	20.07

ATOM	4277	C	LEU	C	82	60.163	105.039	201.092	1.00	20.47
ATOM	4278	O	LEU	C	82	60.051	105.716	202.131	1.00	20.69
ATOM	4279	CB	LEU	C	82	59.728	106.513	199.139	1.00	17.47
ATOM	4280	CG	LEU	C	82	61.232	106.793	199.154	1.00	19.17
ATOM	4281	CD1	LEU	C	82	61.994	105.694	198.450	1.00	15.73
ATOM	4282	CD2	LEU	C	82	61.504	108.107	198.489	1.00	20.87
ATOM	4283	N	PHE	C	83	61.050	104.068	200.953	1.00	18.74
ATOM	4284	CA	PHE	C	83	61.997	103.767	202.006	1.00	21.10
ATOM	4285	C	PHE	C	83	63.359	103.604	201.366	1.00	21.36
ATOM	4286	O	PHE	C	83	63.453	103.429	200.160	1.00	22.38
ATOM	4287	CB	PHE	C	83	61.613	102.478	202.722	1.00	21.14
ATOM	4288	CG	PHE	C	83	60.402	102.598	203.588	1.00	21.27
ATOM	4289	CD1	PHE	C	83	59.202	103.051	203.078	1.00	23.11
ATOM	4290	CD2	PHE	C	83	60.444	102.205	204.910	1.00	26.65
ATOM	4291	CE1	PHE	C	83	58.056	103.105	203.871	1.00	18.79
ATOM	4292	CE2	PHE	C	83	59.297	102.257	205.704	1.00	22.42
ATOM	4293	CZ	PHE	C	83	58.111	102.705	205.176	1.00	18.22
ATOM	4294	N	TRP	C	84	64.415	103.671	202.167	1.00	23.05
ATOM	4295	CA	TRP	C	84	65.761	103.505	201.637	1.00	23.91
ATOM	4296	C	TRP	C	84	66.525	102.410	202.345	1.00	25.22
ATOM	4297	O	TRP	C	84	66.689	102.467	203.562	1.00	26.66
ATOM	4298	CB	TRP	C	84	66.528	104.813	201.732	1.00	22.07
ATOM	4299	CG	TRP	C	84	65.911	105.856	200.878	1.00	23.80
ATOM	4300	CD1	TRP	C	84	64.961	106.748	201.243	1.00	25.12
ATOM	4301	CD2	TRP	C	84	66.168	106.088	199.488	1.00	24.83
ATOM	4302	NE1	TRP	C	84	64.602	107.530	200.171	1.00	26.03
ATOM	4303	CE2	TRP	C	84	65.333	107.143	199.081	1.00	25.30
ATOM	4304	CE3	TRP	C	84	67.031	105.507	198.549	1.00	25.16
ATOM	4305	CZ2	TRP	C	84	65.329	107.633	197.779	1.00	28.30
ATOM	4306	CZ3	TRP	C	84	67.033	105.990	197.267	1.00	26.87
ATOM	4307	CH2	TRP	C	84	66.184	107.050	196.887	1.00	30.05
ATOM	4308	N	MET	C	85	66.978	101.411	201.584	1.00	25.06
ATOM	4309	CA	MET	C	85	67.731	100.310	202.172	1.00	27.14
ATOM	4310	C	MET	C	85	69.214	100.514	201.961	1.00	29.38
ATOM	4311	O	MET	C	85	69.672	100.746	200.837	1.00	32.52
ATOM	4312	CB	MET	C	85	67.335	98.956	201.588	1.00	24.94
ATOM	4313	CG	MET	C	85	67.867	97.838	202.454	1.00	29.91
ATOM	4314	SD	MET	C	85	67.470	96.178	201.952	1.00	38.02
ATOM	4315	CE	MET	C	85	68.922	95.333	202.446	1.00	37.31
ATOM	4316	N	ASN	C	86	69.968	100.430	203.053	1.00	29.12
ATOM	4317	CA	ASN	C	86	71.406	100.626	203.004	1.00	25.77
ATOM	4318	C	ASN	C	86	72.157	99.364	203.397	1.00	23.97
ATOM	4319	O	ASN	C	86	71.850	98.751	204.409	1.00	21.85
ATOM	4320	CB	ASN	C	86	71.812	101.754	203.956	1.00	24.38
ATOM	4321	CG	ASN	C	86	71.051	103.051	203.706	1.00	26.58
ATOM	4322	OD1	ASN	C	86	69.851	103.142	203.960	1.00	28.45
ATOM	4323	ND2	ASN	C	86	71.757	104.066	203.218	1.00	26.29
ATOM	4324	N	VAL	C	87	73.132	98.974	202.587	1.00	23.12
ATOM	4325	CA	VAL	C	87	73.952	97.811	202.896	1.00	24.44
ATOM	4326	C	VAL	C	87	75.393	98.317	202.921	1.00	26.48
ATOM	4327	O	VAL	C	87	75.959	98.740	201.903	1.00	26.49
ATOM	4328	CB	VAL	C	87	73.783	96.678	201.849	1.00	25.24
ATOM	4329	CG1	VAL	C	87	74.707	95.508	202.176	1.00	17.33
ATOM	4330	CG2	VAL	C	87	72.334	96.205	201.837	1.00	24.13
ATOM	4331	N	LYS	C	88	75.966	98.310	204.116	1.00	28.37
ATOM	4332	CA	LYS	C	88	77.323	98.786	204.319	1.00	28.60
ATOM	4333	C	LYS	C	88	78.272	97.620	204.460	1.00	28.71
ATOM	4334	O	LYS	C	88	77.958	96.648	205.148	1.00	28.13
ATOM	4335	CB	LYS	C	88	77.394	99.663	205.577	1.00	28.34
ATOM	4336	CG	LYS	C	88	78.727	99.565	206.305	1.00	30.29
ATOM	4337	CD	LYS	C	88	78.774	100.357	207.599	1.00	32.82
ATOM	4338	CE	LYS	C	88	78.956	101.844	207.342	1.00	39.73

ATOM	4339	NZ	LYS	C	88	79.223	102.641	208.581	1.00	39.96
ATOM	4340	N	ALA	C	89	79.425	97.724	203.796	1.00	28.73
ATOM	4341	CA	ALA	C	89	80.455	96.695	203.856	1.00	28.20
ATOM	4342	C	ALA	C	89	81.626	97.264	204.645	1.00	30.63
ATOM	4343	O	ALA	C	89	82.332	98.172	204.190	1.00	31.42
ATOM	4344	CB	ALA	C	89	80.899	96.299	202.461	1.00	24.35
ATOM	4345	N	ILE	C	90	81.823	96.727	205.840	1.00	31.80
ATOM	4346	CA	ILE	C	90	82.891	97.187	206.700	1.00	35.03
ATOM	4347	C	ILE	C	90	84.149	96.339	206.549	1.00	37.33
ATOM	4348	O	ILE	C	90	84.131	95.135	206.766	1.00	39.39
ATOM	4349	CB	ILE	C	90	82.437	97.162	208.177	1.00	34.40
ATOM	4350	CG1	ILE	C	90	81.058	97.805	208.298	1.00	33.54
ATOM	4351	CG2	ILE	C	90	83.419	97.922	209.049	1.00	32.26
ATOM	4352	CD1	ILE	C	90	80.590	97.979	209.721	1.00	31.89
ATOM	4353	N	PRO	C	91	85.260	96.964	206.158	1.00	40.12
ATOM	4354	CA	PRO	C	91	86.540	96.276	205.981	1.00	44.42
ATOM	4355	C	PRO	C	91	87.240	96.111	207.326	1.00	48.29
ATOM	4356	O	PRO	C	91	87.186	97.016	208.167	1.00	50.19
ATOM	4357	CB	PRO	C	91	87.298	97.226	205.082	1.00	43.95
ATOM	4358	CG	PRO	C	91	86.856	98.555	205.608	1.00	41.04
ATOM	4359	CD	PRO	C	91	85.360	98.361	205.709	1.00	41.77
ATOM	4360	N	SER	C	92	87.904	94.976	207.535	1.00	51.01
ATOM	4361	CA	SER	C	92	88.610	94.756	208.799	1.00	54.43
ATOM	4362	C	SER	C	92	89.800	95.695	208.874	1.00	55.51
ATOM	4363	O	SER	C	92	90.225	96.226	207.854	1.00	56.04
ATOM	4364	CB	SER	C	92	89.081	93.307	208.909	1.00	54.36
ATOM	4365	OG	SER	C	92	87.978	92.423	209.036	1.00	59.05
ATOM	4366	N	MET	C	93	90.333	95.917	210.072	1.00	59.62
ATOM	4367	CA	MET	C	93	91.483	96.811	210.220	1.00	64.28
ATOM	4368	C	MET	C	93	92.792	96.067	209.986	1.00	65.42
ATOM	4369	O	MET	C	93	92.945	94.908	210.384	1.00	64.87
ATOM	4370	CB	MET	C	93	91.510	97.459	211.608	1.00	67.33
ATOM	4371	CG	MET	C	93	92.588	98.533	211.741	1.00	73.91
ATOM	4372	SD	MET	C	93	93.765	98.270	213.097	1.00	79.03
ATOM	4373	CE	MET	C	93	93.331	99.644	214.207	1.00	76.48
ATOM	4374	N	ASP	C	94	93.734	96.740	209.335	1.00	66.95
ATOM	4375	CA	ASP	C	94	95.025	96.140	209.027	1.00	70.10
ATOM	4376	C	ASP	C	94	96.011	96.310	210.177	1.00	70.64
ATOM	4377	O	ASP	C	94	96.675	97.346	210.292	1.00	71.36
ATOM	4378	CB	ASP	C	94	95.590	96.768	207.754	1.00	74.00
ATOM	4379	CG	ASP	C	94	96.904	96.153	207.341	1.00	75.55
ATOM	4380	OD1	ASP	C	94	97.444	95.350	208.127	1.00	76.02
ATOM	4381	OD2	ASP	C	94	97.395	96.474	206.237	1.00	77.79
ATOM	4382	N	LYS	C	95	96.118	95.281	211.013	1.00	68.78
ATOM	4383	CA	LYS	C	95	96.999	95.325	212.171	1.00	66.84
ATOM	4384	C	LYS	C	95	98.453	95.668	211.855	1.00	66.91
ATOM	4385	O	LYS	C	95	99.253	95.881	212.762	1.00	65.42
ATOM	4386	CB	LYS	C	95	96.949	93.996	212.921	1.00	66.04
ATOM	4387	CG	LYS	C	95	95.616	93.682	213.588	1.00	67.72
ATOM	4388	CD	LYS	C	95	94.704	92.887	212.664	1.00	72.50
ATOM	4389	CE	LYS	C	95	93.463	92.365	213.384	1.00	69.15
ATOM	4390	NZ	LYS	C	95	92.605	91.587	212.450	1.00	68.22
ATOM	4391	N	SER	C	96	98.796	95.732	210.573	1.00	67.63
ATOM	4392	CA	SER	C	96	100.167	96.039	210.174	1.00	67.65
ATOM	4393	C	SER	C	96	100.431	97.544	210.061	1.00	70.15
ATOM	4394	O	SER	C	96	101.476	98.032	210.494	1.00	71.99
ATOM	4395	CB	SER	C	96	100.502	95.346	208.837	1.00	64.70
ATOM	4396	OG	SER	C	96	99.771	95.875	207.750	1.00	57.13
ATOM	4397	N	LYS	C	97	99.471	98.272	209.494	1.00	71.23
ATOM	4398	CA	LYS	C	97	99.581	99.718	209.288	1.00	71.11
ATOM	4399	C	LYS	C	97	99.164	100.526	210.523	1.00	70.67
ATOM	4400	O	LYS	C	97	98.461	101.530	210.420	1.00	70.78

ATOM	4401	CB	LYS	C	97	98.722	100.110	208.081	1.00	71.37
ATOM	4402	CG	LYS	C	97	99.032	99.309	206.817	1.00	73.27
ATOM	4403	CD	LYS	C	97	99.747	100.149	205.773	1.00	74.66
ATOM	4404	CE	LYS	C	97	100.402	99.277	204.709	1.00	78.32
ATOM	4405	NZ	LYS	C	97	101.381	98.306	205.304	1.00	78.40
ATOM	4406	N	LEU	C	98	99.636	100.089	211.684	1.00	70.41
ATOM	4407	CA	LEU	C	98	99.318	100.704	212.975	1.00	69.78
ATOM	4408	C	LEU	C	98	99.948	102.091	213.228	1.00	68.39
ATOM	4409	O	LEU	C	98	99.249	103.036	213.590	1.00	65.64
ATOM	4410	CB	LEU	C	98	99.730	99.714	214.088	1.00	72.17
ATOM	4411	CG	LEU	C	98	98.811	99.256	215.235	1.00	72.05
ATOM	4412	CD1	LEU	C	98	99.007	100.149	216.437	1.00	73.67
ATOM	4413	CD2	LEU	C	98	97.363	99.238	214.785	1.00	71.32
ATOM	4414	N	THR	C	99	101.263	102.206	213.050	1.00	67.41
ATOM	4415	CA	THR	C	99	101.970	103.468	213.278	1.00	65.88
ATOM	4416	C	THR	C	99	101.868	104.356	212.065	1.00	65.12
ATOM	4417	O	THR	C	99	102.615	105.330	211.932	1.00	62.99
ATOM	4418	CB	THR	C	99	103.459	103.251	213.514	1.00	67.40
ATOM	4419	OG1	THR	C	99	104.021	102.566	212.384	1.00	69.76
ATOM	4420	CG2	THR	C	99	103.684	102.445	214.771	1.00	67.97
ATOM	4421	N	GLU	C	100	100.948	104.007	211.177	1.00	64.78
ATOM	4422	CA	GLU	C	100	100.756	104.758	209.951	1.00	63.89
ATOM	4423	C	GLU	C	100	99.506	105.626	209.949	1.00	60.62
ATOM	4424	O	GLU	C	100	98.544	105.366	210.672	1.00	59.60
ATOM	4425	CB	GLU	C	100	100.682	103.795	208.764	1.00	67.02
ATOM	4426	CG	GLU	C	100	101.928	102.966	208.535	1.00	73.76
ATOM	4427	CD	GLU	C	100	101.759	101.969	207.398	1.00	77.80
ATOM	4428	OE1	GLU	C	100	101.410	102.400	206.277	1.00	79.19
ATOM	4429	OE2	GLU	C	100	101.976	100.757	207.626	1.00	80.33
ATOM	4430	N	ASN	C	101	99.545	106.675	209.137	1.00	56.43
ATOM	4431	CA	ASN	C	101	98.398	107.537	208.969	1.00	52.58
ATOM	4432	C	ASN	C	101	97.629	106.805	207.905	1.00	52.33
ATOM	4433	O	ASN	C	101	98.199	106.443	206.875	1.00	52.97
ATOM	4434	CB	ASN	C	101	98.803	108.893	208.436	1.00	49.14
ATOM	4435	CG	ASN	C	101	99.264	109.804	209.517	1.00	50.28
ATOM	4436	OD1	ASN	C	101	99.115	109.502	210.701	1.00	51.29
ATOM	4437	ND2	ASN	C	101	99.823	110.935	209.132	1.00	48.18
ATOM	4438	N	THR	C	102	96.344	106.572	208.145	1.00	51.33
ATOM	4439	CA	THR	C	102	95.530	105.854	207.179	1.00	48.81
ATOM	4440	C	THR	C	102	94.152	106.477	206.994	1.00	47.38
ATOM	4441	O	THR	C	102	93.728	107.342	207.755	1.00	45.76
ATOM	4442	CB	THR	C	102	95.327	104.389	207.614	1.00	50.70
ATOM	4443	OG1	THR	C	102	94.209	104.308	208.508	1.00	56.26
ATOM	4444	CG2	THR	C	102	96.564	103.867	208.336	1.00	50.16
ATOM	4445	N	LEU	C	103	93.473	106.027	205.949	1.00	47.04
ATOM	4446	CA	LEU	C	103	92.118	106.453	205.641	1.00	47.31
ATOM	4447	C	LEU	C	103	91.416	105.224	205.083	1.00	48.90
ATOM	4448	O	LEU	C	103	91.611	104.880	203.911	1.00	52.50
ATOM	4449	CB	LEU	C	103	92.087	107.542	204.574	1.00	42.65
ATOM	4450	CG	LEU	C	103	90.644	107.781	204.107	1.00	42.93
ATOM	4451	CD1	LEU	C	103	89.859	108.437	205.240	1.00	42.45
ATOM	4452	CD2	LEU	C	103	90.610	108.628	202.856	1.00	38.73
ATOM	4453	N	GLN	C	104	90.614	104.553	205.904	1.00	46.72
ATOM	4454	CA	GLN	C	104	89.906	103.370	205.422	1.00	43.74
ATOM	4455	C	GLN	C	104	88.505	103.735	204.978	1.00	38.89
ATOM	4456	O	GLN	C	104	87.746	104.344	205.744	1.00	35.30
ATOM	4457	CB	GLN	C	104	89.816	102.301	206.512	1.00	46.63
ATOM	4458	CG	GLN	C	104	90.268	100.923	206.065	1.00	51.26
ATOM	4459	CD	GLN	C	104	90.155	99.889	207.172	1.00	58.25
ATOM	4460	OE1	GLN	C	104	90.848	98.871	207.156	1.00	61.58
ATOM	4461	NE2	GLN	C	104	89.269	100.141	208.136	1.00	60.33
ATOM	4462	N	LEU	C	105	88.174	103.370	203.741	1.00	32.52

ATOM	4463	CA	LEU	C	105	86.849	103.637	203.215	1.00	29.34
ATOM	4464	C	LEU	C	105	85.893	102.464	203.482	1.00	28.40
ATOM	4465	O	LEU	C	105	86.322	101.348	203.811	1.00	25.31
ATOM	4466	CB	LEU	C	105	86.924	103.929	201.723	1.00	28.33
ATOM	4467	CG	LEU	C	105	87.551	105.263	201.329	1.00	28.14
ATOM	4468	CD1	LEU	C	105	87.382	105.473	199.829	1.00	25.83
ATOM	4469	CD2	LEU	C	105	86.873	106.393	202.101	1.00	28.13
ATOM	4470	N	ALA	C	106	84.596	102.735	203.349	1.00	26.93
ATOM	4471	CA	ALA	C	106	83.551	101.741	203.584	1.00	26.25
ATOM	4472	C	ALA	C	106	82.402	101.971	202.596	1.00	23.94
ATOM	4473	O	ALA	C	106	81.597	102.903	202.753	1.00	21.74
ATOM	4474	CB	ALA	C	106	83.042	101.853	205.027	1.00	26.77
ATOM	4475	N	ILE	C	107	82.323	101.116	201.584	1.00	20.13
ATOM	4476	CA	ILE	C	107	81.291	101.267	200.582	1.00	18.49
ATOM	4477	C	ILE	C	107	79.922	100.854	201.106	1.00	20.37
ATOM	4478	O	ILE	C	107	79.792	99.910	201.892	1.00	19.44
ATOM	4479	CB	ILE	C	107	81.631	100.470	199.294	1.00	13.96
ATOM	4480	CG1	ILE	C	107	82.760	101.153	198.534	1.00	11.14
ATOM	4481	CG2	ILE	C	107	80.455	100.461	198.358	1.00	10.37
ATOM	4482	CD1	ILE	C	107	84.000	101.350	199.321	1.00	11.80
ATOM	4483	N	ILE	C	108	78.906	101.596	200.671	1.00	19.94
ATOM	4484	CA	ILE	C	108	77.531	101.337	201.056	1.00	20.61
ATOM	4485	C	ILE	C	108	76.654	101.549	199.826	1.00	21.79
ATOM	4486	O	ILE	C	108	76.758	102.576	199.131	1.00	17.33
ATOM	4487	CB	ILE	C	108	77.057	102.313	202.172	1.00	23.32
ATOM	4488	CG1	ILE	C	108	77.943	102.168	203.399	1.00	19.73
ATOM	4489	CG2	ILE	C	108	75.595	102.035	202.562	1.00	19.41
ATOM	4490	CD1	ILE	C	108	77.873	103.347	204.279	1.00	19.45
ATOM	4491	N	SER	C	109	75.800	100.565	199.562	1.00	21.54
ATOM	4492	CA	SER	C	109	74.873	100.632	198.446	1.00	20.36
ATOM	4493	C	SER	C	109	73.551	101.080	199.067	1.00	20.85
ATOM	4494	O	SER	C	109	73.123	100.541	200.100	1.00	20.93
ATOM	4495	CB	SER	C	109	74.700	99.252	197.793	1.00	17.72
ATOM	4496	OG	SER	C	109	75.947	98.668	197.460	1.00	23.21
ATOM	4497	N	ARG	C	110	72.931	102.087	198.462	1.00	18.63
ATOM	4498	CA	ARG	C	110	71.655	102.589	198.937	1.00	19.33
ATOM	4499	C	ARG	C	110	70.639	102.511	197.783	1.00	20.60
ATOM	4500	O	ARG	C	110	70.705	103.253	196.793	1.00	17.83
ATOM	4501	CB	ARG	C	110	71.802	104.023	199.448	1.00	16.58
ATOM	4502	CG	ARG	C	110	70.540	104.824	199.297	1.00	26.22
ATOM	4503	CD	ARG	C	110	70.567	106.139	200.049	1.00	31.01
ATOM	4504	NE	ARG	C	110	70.476	105.910	201.486	1.00	34.58
ATOM	4505	CZ	ARG	C	110	69.676	106.571	202.310	1.00	28.68
ATOM	4506	NH1	ARG	C	110	68.879	107.521	201.853	1.00	28.31
ATOM	4507	NH2	ARG	C	110	69.673	106.260	203.594	1.00	30.16
ATOM	4508	N	ILE	C	111	69.703	101.579	197.924	1.00	20.99
ATOM	4509	CA	ILE	C	111	68.671	101.349	196.931	1.00	18.74
ATOM	4510	C	ILE	C	111	67.257	101.594	197.479	1.00	20.68
ATOM	4511	O	ILE	C	111	66.979	101.366	198.661	1.00	19.90
ATOM	4512	CB	ILE	C	111	68.791	99.937	196.417	1.00	14.40
ATOM	4513	CG1	ILE	C	111	68.379	98.950	197.498	1.00	13.17
ATOM	4514	CG2	ILE	C	111	70.226	99.685	196.011	1.00	13.38
ATOM	4515	CD1	ILE	C	111	68.738	97.514	197.187	1.00	18.44
ATOM	4516	N	LYS	C	112	66.372	102.081	196.613	1.00	19.74
ATOM	4517	CA	LYS	C	112	65.013	102.373	197.015	1.00	18.29
ATOM	4518	C	LYS	C	112	64.271	101.093	197.297	1.00	21.43
ATOM	4519	O	LYS	C	112	64.532	100.060	196.679	1.00	25.95
ATOM	4520	CB	LYS	C	112	64.267	103.118	195.921	1.00	14.99
ATOM	4521	CG	LYS	C	112	65.063	104.178	195.194	1.00	19.00
ATOM	4522	CD	LYS	C	112	64.117	105.069	194.394	1.00	22.65
ATOM	4523	CE	LYS	C	112	64.821	105.691	193.202	1.00	30.03
ATOM	4524	NZ	LYS	C	112	63.900	106.255	192.152	1.00	32.18

ATOM	4525	N	LEU	C	113	63.339	101.175	198.233	1.00	21.60
ATOM	4526	CA	LEU	C	113	62.504	100.055	198.617	1.00	24.20
ATOM	4527	C	LEU	C	113	61.092	100.590	198.618	1.00	24.47
ATOM	4528	O	LEU	C	113	60.782	101.500	199.370	1.00	27.85
ATOM	4529	CB	LEU	C	113	62.844	99.561	200.028	1.00	28.86
ATOM	4530	CG	LEU	C	113	61.753	98.656	200.638	1.00	31.69
ATOM	4531	CD1	LEU	C	113	61.506	97.536	199.658	1.00	40.95
ATOM	4532	CD2	LEU	C	113	62.144	98.061	201.976	1.00	23.88
ATOM	4533	N	TYR	C	114	60.228	100.046	197.778	1.00	25.79
ATOM	4534	CA	TYR	C	114	58.860	100.532	197.769	1.00	27.53
ATOM	4535	C	TYR	C	114	57.935	99.555	198.452	1.00	28.96
ATOM	4536	O	TYR	C	114	58.026	98.348	198.239	1.00	31.26
ATOM	4537	CB	TYR	C	114	58.365	100.766	196.351	1.00	23.82
ATOM	4538	CG	TYR	C	114	59.137	101.804	195.605	1.00	16.67
ATOM	4539	CD1	TYR	C	114	58.953	103.156	195.853	1.00	14.34
ATOM	4540	CD2	TYR	C	114	60.032	101.434	194.629	1.00	16.96
ATOM	4541	CE1	TYR	C	114	59.645	104.111	195.131	1.00	14.03
ATOM	4542	CE2	TYR	C	114	60.728	102.384	193.901	1.00	17.49
ATOM	4543	CZ	TYR	C	114	60.524	103.712	194.153	1.00	14.21
ATOM	4544	OH	TYR	C	114	61.172	104.620	193.374	1.00	21.11
ATOM	4545	N	TYR	C	115	57.054	100.088	199.285	1.00	29.85
ATOM	4546	CA	TYR	C	115	56.094	99.271	199.997	1.00	31.61
ATOM	4547	C	TYR	C	115	54.848	99.291	199.119	1.00	33.95
ATOM	4548	O	TYR	C	115	54.244	100.353	198.903	1.00	32.60
ATOM	4549	CB	TYR	C	115	55.798	99.890	201.356	1.00	29.86
ATOM	4550	CG	TYR	C	115	54.801	99.105	202.152	1.00	30.94
ATOM	4551	CD1	TYR	C	115	55.158	97.920	202.776	1.00	33.31
ATOM	4552	CD2	TYR	C	115	53.491	99.531	202.260	1.00	31.54
ATOM	4553	CE1	TYR	C	115	54.227	97.171	203.494	1.00	31.38
ATOM	4554	CE2	TYR	C	115	52.554	98.792	202.967	1.00	34.81
ATOM	4555	CZ	TYR	C	115	52.924	97.612	203.584	1.00	32.84
ATOM	4556	OH	TYR	C	115	51.984	96.865	204.272	1.00	33.90
ATOM	4557	N	ARG	C	116	54.463	98.128	198.602	1.00	34.99
ATOM	4558	CA	ARG	C	116	53.304	98.084	197.729	1.00	36.28
ATOM	4559	C	ARG	C	116	52.067	97.401	198.283	1.00	37.62
ATOM	4560	O	ARG	C	116	51.943	96.164	198.264	1.00	33.96
ATOM	4561	CB	ARG	C	116	53.682	97.460	196.387	1.00	36.69
ATOM	4562	CG	ARG	C	116	52.631	97.702	195.312	1.00	37.09
ATOM	4563	CD	ARG	C	116	53.169	97.317	193.979	1.00	36.61
ATOM	4564	NE	ARG	C	116	54.302	98.152	193.617	1.00	38.85
ATOM	4565	CZ	ARG	C	116	55.118	97.885	192.606	1.00	42.93
ATOM	4566	NH1	ARG	C	116	54.922	96.797	191.871	1.00	45.10
ATOM	4567	NH2	ARG	C	116	56.111	98.713	192.317	1.00	42.14
ATOM	4568	N	PRO	C	117	51.118	98.211	198.769	1.00	40.18
ATOM	4569	CA	PRO	C	117	49.856	97.736	199.340	1.00	45.95
ATOM	4570	C	PRO	C	117	49.291	96.646	198.439	1.00	50.72
ATOM	4571	O	PRO	C	117	49.045	96.883	197.254	1.00	51.99
ATOM	4572	CB	PRO	C	117	48.995	98.989	199.348	1.00	45.50
ATOM	4573	CG	PRO	C	117	49.999	100.071	199.571	1.00	44.47
ATOM	4574	CD	PRO	C	117	51.133	99.679	198.668	1.00	39.72
ATOM	4575	N	ALA	C	118	49.092	95.459	199.011	1.00	53.86
ATOM	4576	CA	ALA	C	118	48.601	94.286	198.281	1.00	56.34
ATOM	4577	C	ALA	C	118	47.426	94.489	197.314	1.00	55.72
ATOM	4578	O	ALA	C	118	47.286	93.764	196.324	1.00	54.96
ATOM	4579	CB	ALA	C	118	48.274	93.172	199.273	1.00	56.35
ATOM	4580	N	LYS	C	119	46.579	95.465	197.589	1.00	56.21
ATOM	4581	CA	LYS	C	119	45.454	95.698	196.708	1.00	58.25
ATOM	4582	C	LYS	C	119	45.539	97.075	196.110	1.00	59.15
ATOM	4583	O	LYS	C	119	45.424	98.080	196.814	1.00	61.86
ATOM	4584	CB	LYS	C	119	44.137	95.524	197.465	1.00	59.73
ATOM	4585	CG	LYS	C	119	43.859	94.080	197.830	1.00	59.77
ATOM	4586	CD	LYS	C	119	42.674	93.937	198.752	1.00	63.59

ATOM	4587	CE	LYS	C	119	42.590	92.503	199.258	1.00	68.26
ATOM	4588	NZ	LYS	C	119	41.485	92.275	200.234	1.00	72.19
ATOM	4589	N	LEU	C	120	45.766	97.111	194.805	1.00	57.60
ATOM	4590	CA	LEU	C	120	45.862	98.361	194.073	1.00	57.38
ATOM	4591	C	LEU	C	120	45.179	98.143	192.736	1.00	58.77
ATOM	4592	O	LEU	C	120	45.293	97.073	192.142	1.00	60.91
ATOM	4593	CB	LEU	C	120	47.326	98.741	193.855	1.00	55.87
ATOM	4594	CG	LEU	C	120	48.180	99.080	195.080	1.00	55.24
ATOM	4595	CD1	LEU	C	120	49.640	99.177	194.649	1.00	54.02
ATOM	4596	CD2	LEU	C	120	47.706	100.381	195.725	1.00	50.21
ATOM	4597	N	ALA	C	121	44.469	99.155	192.260	1.00	59.27
ATOM	4598	CA	ALA	C	121	43.767	99.037	190.997	1.00	58.49
ATOM	4599	C	ALA	C	121	44.728	99.036	189.825	1.00	58.36
ATOM	4600	O	ALA	C	121	45.139	97.982	189.339	1.00	58.63
ATOM	4601	CB	ALA	C	121	42.779	100.172	190.862	1.00	60.03
ATOM	4602	N	LEU	C	122	45.088	100.234	189.386	1.00	58.74
ATOM	4603	CA	LEU	C	122	45.989	100.418	188.259	1.00	60.88
ATOM	4604	C	LEU	C	122	47.224	99.539	188.356	1.00	60.67
ATOM	4605	O	LEU	C	122	48.040	99.720	189.253	1.00	63.89
ATOM	4606	CB	LEU	C	122	46.432	101.877	188.191	1.00	62.24
ATOM	4607	CG	LEU	C	122	46.877	102.410	186.831	1.00	66.20
ATOM	4608	CD1	LEU	C	122	45.758	103.303	186.276	1.00	68.97
ATOM	4609	CD2	LEU	C	122	48.173	103.204	186.968	1.00	65.95
ATOM	4610	N	PRO	C	123	47.375	98.569	187.441	1.00	59.36
ATOM	4611	CA	PRO	C	123	48.553	97.689	187.473	1.00	59.13
ATOM	4612	C	PRO	C	123	49.856	98.445	187.124	1.00	55.13
ATOM	4613	O	PRO	C	123	49.903	99.213	186.164	1.00	51.49
ATOM	4614	CB	PRO	C	123	48.198	96.596	186.459	1.00	60.99
ATOM	4615	CG	PRO	C	123	47.285	97.310	185.499	1.00	62.53
ATOM	4616	CD	PRO	C	123	46.413	98.131	186.419	1.00	58.75
ATOM	4617	N	PRO	C	124	50.926	98.214	187.905	1.00	53.20
ATOM	4618	CA	PRO	C	124	52.244	98.832	187.755	1.00	53.60
ATOM	4619	C	PRO	C	124	52.790	98.992	186.352	1.00	55.10
ATOM	4620	O	PRO	C	124	53.359	100.030	186.029	1.00	55.42
ATOM	4621	CB	PRO	C	124	53.144	97.961	188.632	1.00	52.49
ATOM	4622	CG	PRO	C	124	52.429	96.664	188.688	1.00	51.44
ATOM	4623	CD	PRO	C	124	51.007	97.091	188.852	1.00	52.15
ATOM	4624	N	ASP	C	125	52.635	97.984	185.509	1.00	57.70
ATOM	4625	CA	ASP	C	125	53.157	98.116	184.158	1.00	61.31
ATOM	4626	C	ASP	C	125	52.380	99.154	183.366	1.00	61.48
ATOM	4627	O	ASP	C	125	52.832	99.609	182.327	1.00	61.28
ATOM	4628	CB	ASP	C	125	53.140	96.767	183.437	1.00	66.99
ATOM	4629	CG	ASP	C	125	51.787	96.092	183.486	1.00	71.89
ATOM	4630	OD1	ASP	C	125	51.071	96.262	184.505	1.00	73.60
ATOM	4631	OD2	ASP	C	125	51.455	95.376	182.511	1.00	72.03
ATOM	4632	N	GLN	C	126	51.221	99.552	183.875	1.00	62.52
ATOM	4633	CA	GLN	C	126	50.404	100.544	183.195	1.00	63.33
ATOM	4634	C	GLN	C	126	50.381	101.883	183.930	1.00	62.23
ATOM	4635	O	GLN	C	126	49.334	102.518	184.022	1.00	63.66
ATOM	4636	CB	GLN	C	126	48.969	100.017	183.052	1.00	68.26
ATOM	4637	CG	GLN	C	126	48.014	100.961	182.310	1.00	75.97
ATOM	4638	CD	GLN	C	126	46.552	100.587	182.484	1.00	79.81
ATOM	4639	OE1	GLN	C	126	45.653	101.403	182.240	1.00	80.91
ATOM	4640	NE2	GLN	C	126	46.306	99.346	182.902	1.00	82.55
ATOM	4641	N	ALA	C	127	51.516	102.333	184.453	1.00	60.39
ATOM	4642	CA	ALA	C	127	51.504	103.603	185.173	1.00	59.04
ATOM	4643	C	ALA	C	127	52.385	104.677	184.555	1.00	60.03
ATOM	4644	O	ALA	C	127	52.039	105.854	184.581	1.00	59.38
ATOM	4645	CB	ALA	C	127	51.883	103.386	186.629	1.00	53.91
ATOM	4646	N	ALA	C	128	53.514	104.286	183.979	1.00	61.06
ATOM	4647	CA	ALA	C	128	54.408	105.272	183.383	1.00	63.22
ATOM	4648	C	ALA	C	128	53.764	106.036	182.227	1.00	65.36

ATOM	4649	O	ALA	C	128	54.422	106.836	181.570	1.00	67.54
ATOM	4650	CB	ALA	C	128	55.685	104.598	182.913	1.00	62.35
ATOM	4651	N	GLU	C	129	52.482	105.787	181.983	1.00	67.35
ATOM	4652	CA	GLU	C	129	51.750	106.447	180.902	1.00	67.49
ATOM	4653	C	GLU	C	129	50.812	107.497	181.454	1.00	65.86
ATOM	4654	O	GLU	C	129	50.467	108.449	180.765	1.00	66.31
ATOM	4655	CB	GLU	C	129	50.907	105.441	180.138	1.00	72.02
ATOM	4656	CG	GLU	C	129	49.870	104.771	181.029	1.00	80.76
ATOM	4657	CD	GLU	C	129	48.766	104.094	180.246	1.00	84.69
ATOM	4658	OE1	GLU	C	129	49.085	103.428	179.235	1.00	85.73
ATOM	4659	OE2	GLU	C	129	47.583	104.221	180.650	1.00	85.03
ATOM	4660	N	LYS	C	130	50.378	107.294	182.692	1.00	64.14
ATOM	4661	CA	LYS	C	130	49.465	108.213	183.354	1.00	63.32
ATOM	4662	C	LYS	C	130	50.199	109.495	183.722	1.00	61.78
ATOM	4663	O	LYS	C	130	49.635	110.387	184.341	1.00	60.57
ATOM	4664	CB	LYS	C	130	48.913	107.569	184.625	1.00	66.08
ATOM	4665	CG	LYS	C	130	48.526	106.098	184.475	1.00	71.31
ATOM	4666	CD	LYS	C	130	47.212	105.910	183.732	1.00	77.28
ATOM	4667	CE	LYS	C	130	46.927	104.432	183.491	1.00	79.10
ATOM	4668	NZ	LYS	C	130	45.629	104.188	182.790	1.00	82.47
ATOM	4669	N	LEU	C	131	51.464	109.581	183.332	1.00	61.60
ATOM	4670	CA	LEU	C	131	52.285	110.742	183.638	1.00	63.16
ATOM	4671	C	LEU	C	131	51.932	111.977	182.829	1.00	65.92
ATOM	4672	O	LEU	C	131	52.310	112.088	181.663	1.00	68.61
ATOM	4673	CB	LEU	C	131	53.759	110.410	183.416	1.00	60.38
ATOM	4674	CG	LEU	C	131	54.743	111.519	183.788	1.00	57.78
ATOM	4675	CD1	LEU	C	131	54.490	111.988	185.214	1.00	54.31
ATOM	4676	CD2	LEU	C	131	56.155	110.996	183.640	1.00	56.05
ATOM	4677	N	ARG	C	132	51.221	112.914	183.447	1.00	68.57
ATOM	4678	CA	ARG	C	132	50.845	114.145	182.756	1.00	71.24
ATOM	4679	C	ARG	C	132	51.807	115.273	183.087	1.00	71.71
ATOM	4680	O	ARG	C	132	52.712	115.110	183.905	1.00	70.60
ATOM	4681	CB	ARG	C	132	49.416	114.557	183.121	1.00	72.54
ATOM	4682	CG	ARG	C	132	48.360	113.729	182.417	1.00	76.90
ATOM	4683	CD	ARG	C	132	46.957	114.273	182.621	1.00	80.85
ATOM	4684	NE	ARG	C	132	46.453	114.043	183.971	1.00	85.00
ATOM	4685	CZ	ARG	C	132	45.228	114.366	184.374	1.00	88.08
ATOM	4686	NH1	ARG	C	132	44.374	114.938	183.530	1.00	87.69
ATOM	4687	NH2	ARG	C	132	44.856	114.116	185.622	1.00	91.33
ATOM	4688	N	PHE	C	133	51.614	116.418	182.439	1.00	72.48
ATOM	4689	CA	PHE	C	133	52.476	117.563	182.674	1.00	73.65
ATOM	4690	C	PHE	C	133	51.762	118.901	182.833	1.00	75.91
ATOM	4691	O	PHE	C	133	50.531	118.983	182.845	1.00	76.14
ATOM	4692	CB	PHE	C	133	53.509	117.669	181.563	1.00	70.55
ATOM	4693	CG	PHE	C	133	54.397	116.481	181.467	1.00	69.33
ATOM	4694	CD1	PHE	C	133	53.918	115.285	180.953	1.00	69.10
ATOM	4695	CD2	PHE	C	133	55.709	116.545	181.919	1.00	69.86
ATOM	4696	CE1	PHE	C	133	54.735	114.163	180.894	1.00	73.26
ATOM	4697	CE2	PHE	C	133	56.545	115.433	181.868	1.00	70.59
ATOM	4698	CZ	PHE	C	133	56.059	114.236	181.355	1.00	73.37
ATOM	4699	N	ARG	C	134	52.575	119.944	182.962	1.00	78.82
ATOM	4700	CA	ARG	C	134	52.119	121.317	183.143	1.00	81.55
ATOM	4701	C	ARG	C	134	53.376	122.200	183.087	1.00	83.30
ATOM	4702	O	ARG	C	134	54.245	122.131	183.963	1.00	83.02
ATOM	4703	CB	ARG	C	134	51.413	121.439	184.493	1.00	80.11
ATOM	4704	CG	ARG	C	134	51.189	122.846	184.978	1.00	82.82
ATOM	4705	CD	ARG	C	134	50.787	122.814	186.447	1.00	87.32
ATOM	4706	NE	ARG	C	134	49.490	122.170	186.651	1.00	89.68
ATOM	4707	CZ	ARG	C	134	49.023	121.783	187.835	1.00	91.34
ATOM	4708	NH1	ARG	C	134	49.747	121.966	188.934	1.00	91.14
ATOM	4709	NH2	ARG	C	134	47.826	121.220	187.920	1.00	92.37
ATOM	4710	N	ARG	C	135	53.472	123.021	182.044	1.00	84.99

ATOM	4711	CA	ARG C 135	54.639	123.877	181.851	1.00	86.28
ATOM	4712	C	ARG C 135	54.512	125.365	182.182	1.00	87.47
ATOM	4713	O	ARG C 135	53.478	125.841	182.672	1.00	88.46
ATOM	4714	CB	ARG C 135	55.135	123.733	180.413	1.00	83.85
ATOM	4715	CG	ARG C 135	54.021	123.557	179.419	1.00	84.44
ATOM	4716	CD	ARG C 135	54.506	123.671	177.988	1.00	87.07
ATOM	4717	NE	ARG C 135	55.685	122.857	177.715	1.00	89.73
ATOM	4718	CZ	ARG C 135	56.932	123.247	177.956	1.00	92.25
ATOM	4719	NH1	ARG C 135	57.164	124.448	178.471	1.00	93.10
ATOM	4720	NH2	ARG C 135	57.950	122.440	177.675	1.00	92.24
ATOM	4721	N	SER C 136	55.604	126.075	181.901	1.00	87.21
ATOM	4722	CA	SER C 136	55.743	127.513	182.120	1.00	87.51
ATOM	4723	C	SER C 136	57.131	127.893	181.592	1.00	88.80
ATOM	4724	O	SER C 136	57.906	127.018	181.197	1.00	88.45
ATOM	4725	CB	SER C 136	55.652	127.856	183.619	1.00	86.42
ATOM	4726	OG	SER C 136	54.342	127.695	184.139	1.00	81.80
ATOM	4727	N	ALA C 137	57.440	129.190	181.577	1.00	89.82
ATOM	4728	CA	ALA C 137	58.748	129.675	181.117	1.00	89.55
ATOM	4729	C	ALA C 137	59.726	129.463	182.274	1.00	88.83
ATOM	4730	O	ALA C 137	60.754	130.143	182.396	1.00	87.74
ATOM	4731	CB	ALA C 137	58.663	131.166	180.758	1.00	90.76
ATOM	4732	N	ASN C 138	59.386	128.493	183.115	1.00	86.82
ATOM	4733	CA	ASN C 138	60.167	128.177	184.290	1.00	83.49
ATOM	4734	C	ASN C 138	59.884	126.763	184.796	1.00	81.89
ATOM	4735	O	ASN C 138	60.769	125.915	184.794	1.00	80.08
ATOM	4736	CB	ASN C 138	59.840	129.207	185.368	1.00	83.73
ATOM	4737	CG	ASN C 138	58.357	129.542	185.418	1.00	83.86
ATOM	4738	OD1	ASN C 138	57.533	128.705	185.787	1.00	86.22
ATOM	4739	ND2	ASN C 138	58.010	130.766	185.032	1.00	83.04
ATOM	4740	N	SER C 139	58.647	126.511	185.216	1.00	80.39
ATOM	4741	CA	SER C 139	58.266	125.205	185.747	1.00	78.70
ATOM	4742	C	SER C 139	57.674	124.212	184.747	1.00	76.59
ATOM	4743	O	SER C 139	57.005	124.585	183.785	1.00	76.97
ATOM	4744	CB	SER C 139	57.284	125.376	186.912	1.00	80.35
ATOM	4745	OG	SER C 139	57.914	125.960	188.039	1.00	81.48
ATOM	4746	N	LEU C 140	57.927	122.936	185.015	1.00	73.64
ATOM	4747	CA	LEU C 140	57.451	121.825	184.205	1.00	69.79
ATOM	4748	C	LEU C 140	57.065	120.778	185.243	1.00	67.26
ATOM	4749	O	LEU C 140	57.715	119.746	185.375	1.00	66.55
ATOM	4750	CB	LEU C 140	58.588	121.299	183.322	1.00	69.85
ATOM	4751	CG	LEU C 140	58.215	120.422	182.125	1.00	70.07
ATOM	4752	CD1	LEU C 140	59.472	119.876	181.474	1.00	66.54
ATOM	4753	CD2	LEU C 140	57.325	119.284	182.579	1.00	72.74
ATOM	4754	N	THR C 141	56.008	121.075	185.986	1.00	64.32
ATOM	4755	CA	THR C 141	55.515	120.215	187.055	1.00	61.56
ATOM	4756	C	THR C 141	55.020	118.831	186.645	1.00	59.92
ATOM	4757	O	THR C 141	53.969	118.707	186.021	1.00	58.21
ATOM	4758	CB	THR C 141	54.365	120.898	187.783	1.00	61.84
ATOM	4759	OG1	THR C 141	54.640	122.300	187.886	1.00	63.43
ATOM	4760	CG2	THR C 141	54.188	120.301	189.173	1.00	63.90
ATOM	4761	N	LEU C 142	55.770	117.793	187.015	1.00	58.22
ATOM	4762	CA	LEU C 142	55.385	116.413	186.715	1.00	54.69
ATOM	4763	C	LEU C 142	54.179	116.118	187.606	1.00	56.39
ATOM	4764	O	LEU C 142	53.989	116.780	188.625	1.00	57.07
ATOM	4765	CB	LEU C 142	56.511	115.450	187.073	1.00	47.92
ATOM	4766	CG	LEU C 142	57.862	115.495	186.367	1.00	45.53
ATOM	4767	CD1	LEU C 142	57.964	114.383	185.336	1.00	41.72
ATOM	4768	CD2	LEU C 142	58.063	116.856	185.758	1.00	47.51
ATOM	4769	N	ILE C 143	53.363	115.136	187.240	1.00	56.60
ATOM	4770	CA	ILE C 143	52.194	114.823	188.055	1.00	56.20
ATOM	4771	C	ILE C 143	51.687	113.390	187.900	1.00	56.39
ATOM	4772	O	ILE C 143	50.944	113.057	186.980	1.00	56.81

ATOM	4773	CB	ILE	C	143	51.052	115.832	187.779	1.00	54.81
ATOM	4774	CG1	ILE	C	143	49.748	115.308	188.374	1.00	53.82
ATOM	4775	CG2	ILE	C	143	50.942	116.105	186.297	1.00	52.80
ATOM	4776	CD1	ILE	C	143	48.623	116.301	188.318	1.00	58.72
ATOM	4777	N	ASN	C	144	52.101	112.554	188.843	1.00	55.85
ATOM	4778	CA	ASN	C	144	51.759	111.140	188.866	1.00	55.28
ATOM	4779	C	ASN	C	144	50.522	110.893	189.715	1.00	54.73
ATOM	4780	O	ASN	C	144	50.558	111.027	190.932	1.00	55.80
ATOM	4781	CB	ASN	C	144	52.965	110.360	189.403	1.00	55.95
ATOM	4782	CG	ASN	C	144	52.639	108.930	189.754	1.00	56.00
ATOM	4783	OD1	ASN	C	144	51.707	108.332	189.215	1.00	56.88
ATOM	4784	ND2	ASN	C	144	53.428	108.360	190.655	1.00	56.61
ATOM	4785	N	PRO	C	145	49.404	110.531	189.070	1.00	53.67
ATOM	4786	CA	PRO	C	145	48.120	110.256	189.716	1.00	51.13
ATOM	4787	C	PRO	C	145	47.962	108.807	190.157	1.00	50.39
ATOM	4788	O	PRO	C	145	46.975	108.449	190.802	1.00	51.37
ATOM	4789	CB	PRO	C	145	47.129	110.619	188.629	1.00	51.10
ATOM	4790	CG	PRO	C	145	47.817	110.052	187.422	1.00	52.67
ATOM	4791	CD	PRO	C	145	49.248	110.539	187.604	1.00	53.00
ATOM	4792	N	THR	C	146	48.929	107.973	189.796	1.00	48.21
ATOM	4793	CA	THR	C	146	48.889	106.562	190.145	1.00	46.31
ATOM	4794	C	THR	C	146	49.387	106.331	191.566	1.00	47.71
ATOM	4795	O	THR	C	146	49.886	107.248	192.225	1.00	49.95
ATOM	4796	CB	THR	C	146	49.772	105.775	189.223	1.00	45.16
ATOM	4797	OG1	THR	C	146	51.140	105.952	189.605	1.00	48.52
ATOM	4798	CG2	THR	C	146	49.610	106.284	187.820	1.00	50.45
ATOM	4799	N	PRO	C	147	49.248	105.100	192.067	1.00	45.72
ATOM	4800	CA	PRO	C	147	49.718	104.831	193.426	1.00	43.79
ATOM	4801	C	PRO	C	147	51.178	104.391	193.504	1.00	43.04
ATOM	4802	O	PRO	C	147	51.641	103.989	194.572	1.00	43.63
ATOM	4803	CB	PRO	C	147	48.765	103.748	193.901	1.00	45.47
ATOM	4804	CG	PRO	C	147	48.494	102.982	192.646	1.00	43.41
ATOM	4805	CD	PRO	C	147	48.289	104.073	191.629	1.00	43.88
ATOM	4806	N	TYR	C	148	51.902	104.466	192.387	1.00	40.49
ATOM	4807	CA	TYR	C	148	53.313	104.065	192.369	1.00	39.61
ATOM	4808	C	TYR	C	148	54.281	105.228	192.243	1.00	39.11
ATOM	4809	O	TYR	C	148	53.915	106.311	191.794	1.00	38.41
ATOM	4810	CB	TYR	C	148	53.597	103.088	191.226	1.00	35.94
ATOM	4811	CG	TYR	C	148	52.617	101.956	191.151	1.00	32.76
ATOM	4812	CD1	TYR	C	148	51.303	102.179	190.748	1.00	31.23
ATOM	4813	CD2	TYR	C	148	52.989	100.668	191.506	1.00	30.49
ATOM	4814	CE1	TYR	C	148	50.387	101.150	190.699	1.00	28.02
ATOM	4815	CE2	TYR	C	148	52.075	99.633	191.468	1.00	31.71
ATOM	4816	CZ	TYR	C	148	50.777	99.884	191.064	1.00	29.92
ATOM	4817	OH	TYR	C	148	49.867	98.862	191.044	1.00	34.66
ATOM	4818	N	TYR	C	149	55.526	104.984	192.635	1.00	37.95
ATOM	4819	CA	TYR	C	149	56.559	106.002	192.563	1.00	37.44
ATOM	4820	C	TYR	C	149	57.192	106.020	191.172	1.00	37.71
ATOM	4821	O	TYR	C	149	57.905	105.089	190.789	1.00	37.31
ATOM	4822	CB	TYR	C	149	57.650	105.735	193.603	1.00	35.58
ATOM	4823	CG	TYR	C	149	57.507	106.482	194.910	1.00	36.64
ATOM	4824	CD1	TYR	C	149	56.721	105.986	195.942	1.00	36.98
ATOM	4825	CD2	TYR	C	149	58.160	107.699	195.110	1.00	41.18
ATOM	4826	CE1	TYR	C	149	56.586	106.682	197.147	1.00	37.17
ATOM	4827	CE2	TYR	C	149	58.029	108.403	196.309	1.00	41.34
ATOM	4828	CZ	TYR	C	149	57.243	107.890	197.321	1.00	38.62
ATOM	4829	OH	TYR	C	149	57.117	108.593	198.498	1.00	39.60
ATOM	4830	N	LEU	C	150	56.950	107.084	190.417	1.00	36.27
ATOM	4831	CA	LEU	C	150	57.531	107.157	189.088	1.00	35.25
ATOM	4832	C	LEU	C	150	58.943	107.709	189.146	1.00	35.28
ATOM	4833	O	LEU	C	150	59.165	108.827	189.629	1.00	33.88
ATOM	4834	CB	LEU	C	150	56.696	108.048	188.172	1.00	35.86

ATOM	4835	CG	LEU	C	150	55.194	107.826	188.030	1.00	37.82
ATOM	4836	CD1	LEU	C	150	54.701	108.741	186.912	1.00	36.04
ATOM	4837	CD2	LEU	C	150	54.874	106.365	187.720	1.00	37.66
ATOM	4838	N	THR	C	151	59.897	106.923	188.656	1.00	33.75
ATOM	4839	CA	THR	C	151	61.287	107.350	188.624	1.00	32.52
ATOM	4840	C	THR	C	151	61.533	107.848	187.212	1.00	32.48
ATOM	4841	O	THR	C	151	62.087	107.136	186.393	1.00	33.99
ATOM	4842	CB	THR	C	151	62.262	106.180	188.949	1.00	32.42
ATOM	4843	OG1	THR	C	151	62.104	105.771	190.314	1.00	33.70
ATOM	4844	CG2	THR	C	151	63.698	106.605	188.748	1.00	34.45
ATOM	4845	N	VAL	C	152	61.089	109.074	186.942	1.00	34.68
ATOM	4846	CA	VAL	C	152	61.218	109.733	185.637	1.00	34.05
ATOM	4847	C	VAL	C	152	62.663	110.033	185.271	1.00	36.30
ATOM	4848	O	VAL	C	152	63.389	110.614	186.053	1.00	39.31
ATOM	4849	CB	VAL	C	152	60.449	111.058	185.632	1.00	30.71
ATOM	4850	CG1	VAL	C	152	60.756	111.827	184.373	1.00	33.77
ATOM	4851	CG2	VAL	C	152	58.962	110.792	185.761	1.00	30.87
ATOM	4852	N	THR	C	153	63.072	109.659	184.071	1.00	39.42
ATOM	4853	CA	THR	C	153	64.434	109.897	183.635	1.00	43.64
ATOM	4854	C	THR	C	153	64.503	110.142	182.123	1.00	50.16
ATOM	4855	O	THR	C	153	63.579	109.786	181.381	1.00	50.73
ATOM	4856	CB	THR	C	153	65.304	108.709	183.994	1.00	42.71
ATOM	4857	OG1	THR	C	153	66.589	108.836	183.375	1.00	43.77
ATOM	4858	CG2	THR	C	153	64.641	107.433	183.527	1.00	46.19
ATOM	4859	N	GLU	C	154	65.607	110.736	181.667	1.00	54.98
ATOM	4860	CA	GLU	C	154	65.777	111.061	180.252	1.00	58.73
ATOM	4861	C	GLU	C	154	64.646	112.012	179.839	1.00	61.72
ATOM	4862	O	GLU	C	154	64.224	112.028	178.684	1.00	63.87
ATOM	4863	CB	GLU	C	154	65.744	109.791	179.382	1.00	57.22
ATOM	4864	CG	GLU	C	154	66.980	108.902	179.505	1.00	56.68
ATOM	4865	CD	GLU	C	154	67.181	107.978	178.305	1.00	57.74
ATOM	4866	OE1	GLU	C	154	66.440	108.125	177.310	1.00	59.17
ATOM	4867	OE2	GLU	C	154	68.086	107.111	178.347	1.00	54.16
ATOM	4868	N	LEU	C	155	64.161	112.797	180.799	1.00	64.66
ATOM	4869	CA	LEU	C	155	63.078	113.754	180.572	1.00	67.21
ATOM	4870	C	LEU	C	155	63.610	114.981	179.848	1.00	69.74
ATOM	4871	O	LEU	C	155	64.385	115.746	180.418	1.00	70.78
ATOM	4872	CB	LEU	C	155	62.471	114.190	181.910	1.00	66.18
ATOM	4873	CG	LEU	C	155	61.298	115.176	181.902	1.00	65.32
ATOM	4874	CD1	LEU	C	155	60.023	114.450	181.498	1.00	66.97
ATOM	4875	CD2	LEU	C	155	61.119	115.774	183.282	1.00	64.82
ATOM	4876	N	ASN	C	156	63.195	115.166	178.595	1.00	72.87
ATOM	4877	CA	ASN	C	156	63.631	116.317	177.801	1.00	74.04
ATOM	4878	C	ASN	C	156	62.429	117.178	177.442	1.00	75.89
ATOM	4879	O	ASN	C	156	61.319	116.671	177.254	1.00	74.59
ATOM	4880	CB	ASN	C	156	64.297	115.853	176.511	1.00	70.12
ATOM	4881	CG	ASN	C	156	65.073	114.583	176.697	1.00	72.02
ATOM	4882	OD1	ASN	C	156	66.128	114.568	177.335	1.00	69.78
ATOM	4883	ND2	ASN	C	156	64.540	113.489	176.158	1.00	70.27
ATOM	4884	N	ALA	C	157	62.648	118.486	177.364	1.00	78.06
ATOM	4885	CA	ALA	C	157	61.584	119.402	176.986	1.00	79.85
ATOM	4886	C	ALA	C	157	61.650	119.387	175.466	1.00	81.70
ATOM	4887	O	ALA	C	157	61.337	120.372	174.794	1.00	81.67
ATOM	4888	CB	ALA	C	157	61.871	120.795	177.522	1.00	80.10
ATOM	4889	N	GLY	C	158	62.070	118.236	174.942	1.00	84.12
ATOM	4890	CA	GLY	C	158	62.224	118.059	173.512	1.00	84.28
ATOM	4891	C	GLY	C	158	63.496	118.776	173.126	1.00	84.84
ATOM	4892	O	GLY	C	158	64.521	118.159	172.830	1.00	83.92
ATOM	4893	N	THR	C	159	63.422	120.100	173.142	1.00	85.35
ATOM	4894	CA	THR	C	159	64.569	120.918	172.816	1.00	86.20
ATOM	4895	C	THR	C	159	65.647	120.542	173.834	1.00	86.44
ATOM	4896	O	THR	C	159	66.441	119.622	173.623	1.00	85.68

ATOM	4897	CB	THR	C	159	64.228	122.425	172.957	1.00	86.22
ATOM	4898	OG1	THR	C	159	62.899	122.669	172.481	1.00	83.66
ATOM	4899	CG2	THR	C	159	65.207	123.269	172.146	1.00	86.28
ATOM	4900	N	ARG	C	160	65.631	121.249	174.954	1.00	86.43
ATOM	4901	CA	ARG	C	160	66.582	121.051	176.033	1.00	87.39
ATOM	4902	C	ARG	C	160	66.294	119.745	176.790	1.00	86.82
ATOM	4903	O	ARG	C	160	65.162	119.246	176.776	1.00	86.85
ATOM	4904	CB	ARG	C	160	66.477	122.253	176.982	1.00	89.82
ATOM	4905	CG	ARG	C	160	67.669	122.505	177.898	1.00	94.94
ATOM	4906	CD	ARG	C	160	68.870	123.058	177.139	1.00	97.64
ATOM	4907	NE	ARG	C	160	69.911	123.547	178.044	1.00	101.12
ATOM	4908	CZ	ARG	C	160	70.545	122.801	178.947	1.00	101.07
ATOM	4909	NH1	ARG	C	160	70.252	121.513	179.078	1.00	99.93
ATOM	4910	NH2	ARG	C	160	71.471	123.349	179.727	1.00	101.03
ATOM	4911	N	VAL	C	161	67.326	119.191	177.431	1.00	84.86
ATOM	4912	CA	VAL	C	161	67.182	117.973	178.236	1.00	82.07
ATOM	4913	C	VAL	C	161	66.699	118.463	179.607	1.00	79.87
ATOM	4914	O	VAL	C	161	66.334	119.629	179.743	1.00	80.41
ATOM	4915	CB	VAL	C	161	68.539	117.234	178.400	1.00	81.21
ATOM	4916	CG1	VAL	C	161	69.493	118.062	179.249	1.00	80.15
ATOM	4917	CG2	VAL	C	161	68.315	115.865	179.023	1.00	80.21
ATOM	4918	N	LEU	C	162	66.694	117.607	180.623	1.00	76.93
ATOM	4919	CA	LEU	C	162	66.242	118.053	181.938	1.00	73.18
ATOM	4920	C	LEU	C	162	66.721	117.244	183.133	1.00	69.90
ATOM	4921	O	LEU	C	162	67.497	116.295	183.005	1.00	70.48
ATOM	4922	CB	LEU	C	162	64.718	118.139	181.972	1.00	75.11
ATOM	4923	CG	LEU	C	162	64.109	119.307	181.196	1.00	76.43
ATOM	4924	CD1	LEU	C	162	62.593	119.211	181.205	1.00	77.47
ATOM	4925	CD2	LEU	C	162	64.577	120.614	181.820	1.00	77.16
ATOM	4926	N	GLU	C	163	66.235	117.637	184.302	1.00	65.26
ATOM	4927	CA	GLU	C	163	66.605	116.999	185.555	1.00	59.12
ATOM	4928	C	GLU	C	163	65.721	115.804	185.860	1.00	54.46
ATOM	4929	O	GLU	C	163	64.495	115.933	185.881	1.00	55.72
ATOM	4930	CB	GLU	C	163	66.491	118.016	186.693	1.00	59.70
ATOM	4931	CG	GLU	C	163	67.386	117.732	187.869	1.00	61.28
ATOM	4932	CD	GLU	C	163	68.842	117.664	187.465	1.00	64.16
ATOM	4933	OE1	GLU	C	163	69.195	116.774	186.655	1.00	67.75
ATOM	4934	OE2	GLU	C	163	69.634	118.500	187.952	1.00	64.39
ATOM	4935	N	ASN	C	164	66.333	114.645	186.098	1.00	48.12
ATOM	4936	CA	ASN	C	164	65.565	113.445	186.427	1.00	44.13
ATOM	4937	C	ASN	C	164	64.581	113.774	187.549	1.00	43.14
ATOM	4938	O	ASN	C	164	64.667	114.826	188.164	1.00	46.86
ATOM	4939	CB	ASN	C	164	66.482	112.324	186.898	1.00	42.44
ATOM	4940	CG	ASN	C	164	67.279	111.713	185.781	1.00	40.51
ATOM	4941	OD1	ASN	C	164	66.723	111.269	184.781	1.00	43.76
ATOM	4942	ND2	ASN	C	164	68.590	111.668	185.950	1.00	41.34
ATOM	4943	N	ALA	C	165	63.653	112.879	187.840	1.00	39.66
ATOM	4944	CA	ALA	C	165	62.696	113.169	188.891	1.00	36.51
ATOM	4945	C	ALA	C	165	62.129	111.910	189.513	1.00	35.55
ATOM	4946	O	ALA	C	165	62.115	110.844	188.896	1.00	36.19
ATOM	4947	CB	ALA	C	165	61.571	114.023	188.340	1.00	34.00
ATOM	4948	N	LEU	C	166	61.691	112.030	190.755	1.00	30.90
ATOM	4949	CA	LEU	C	166	61.091	110.912	191.430	1.00	31.58
ATOM	4950	C	LEU	C	166	59.734	111.461	191.818	1.00	34.26
ATOM	4951	O	LEU	C	166	59.579	112.139	192.828	1.00	36.57
ATOM	4952	CB	LEU	C	166	61.914	110.519	192.655	1.00	31.00
ATOM	4953	CG	LEU	C	166	61.277	109.446	193.548	1.00	34.03
ATOM	4954	CD1	LEU	C	166	60.827	108.227	192.741	1.00	29.40
ATOM	4955	CD2	LEU	C	166	62.282	109.060	194.604	1.00	38.67
ATOM	4956	N	VAL	C	167	58.736	111.196	190.993	1.00	36.58
ATOM	4957	CA	VAL	C	167	57.426	111.740	191.279	1.00	37.60
ATOM	4958	C	VAL	C	167	56.601	110.815	192.123	1.00	38.44

ATOM	4959	O	VAL C 167	56.137	109.763	191.665	1.00	37.76
ATOM	4960	CB	VAL C 167	56.645	112.073	189.992	1.00	38.22
ATOM	4961	CG1	VAL C 167	55.436	112.932	190.340	1.00	41.92
ATOM	4962	CG2	VAL C 167	57.551	112.797	189.002	1.00	35.81
ATOM	4963	N	PRO C 168	56.401	111.208	193.382	1.00	40.02
ATOM	4964	CA	PRO C 168	55.624	110.456	194.372	1.00	41.18
ATOM	4965	C	PRO C 168	54.193	110.137	193.912	1.00	42.28
ATOM	4966	O	PRO C 168	53.592	110.870	193.113	1.00	42.34
ATOM	4967	CB	PRO C 168	55.659	111.371	195.595	1.00	40.76
ATOM	4968	CG	PRO C 168	55.792	112.752	194.992	1.00	40.93
ATOM	4969	CD	PRO C 168	56.813	112.517	193.916	1.00	38.13
ATOM	4970	N	PRO C 169	53.629	109.033	194.418	1.00	41.71
ATOM	4971	CA	PRO C 169	52.272	108.620	194.061	1.00	41.77
ATOM	4972	C	PRO C 169	51.243	109.720	194.293	1.00	39.98
ATOM	4973	O	PRO C 169	51.264	110.391	195.307	1.00	41.04
ATOM	4974	CB	PRO C 169	52.031	107.420	194.973	1.00	42.28
ATOM	4975	CG	PRO C 169	53.394	106.849	195.122	1.00	41.71
ATOM	4976	CD	PRO C 169	54.222	108.081	195.368	1.00	41.15
ATOM	4977	N	MET C 170	50.341	109.902	193.346	1.00	40.82
ATOM	4978	CA	MET C 170	49.307	110.902	193.502	1.00	41.62
ATOM	4979	C	MET C 170	49.869	112.235	193.973	1.00	40.40
ATOM	4980	O	MET C 170	49.286	112.915	194.805	1.00	37.10
ATOM	4981	CB	MET C 170	48.284	110.379	194.491	1.00	41.97
ATOM	4982	CG	MET C 170	47.869	108.973	194.166	1.00	45.75
ATOM	4983	SD	MET C 170	46.456	108.460	195.123	1.00	60.52
ATOM	4984	CE	MET C 170	47.229	107.312	196.293	1.00	59.28
ATOM	4985	N	GLY C 171	51.015	112.604	193.431	1.00	41.97
ATOM	4986	CA	GLY C 171	51.622	113.859	193.815	1.00	45.69
ATOM	4987	C	GLY C 171	52.399	114.391	192.642	1.00	49.08
ATOM	4988	O	GLY C 171	52.454	113.753	191.589	1.00	50.86
ATOM	4989	N	GLU C 172	53.011	115.553	192.819	1.00	51.13
ATOM	4990	CA	GLU C 172	53.775	116.168	191.748	1.00	53.45
ATOM	4991	C	GLU C 172	55.248	116.277	192.104	1.00	53.30
ATOM	4992	O	GLU C 172	55.687	115.816	193.151	1.00	55.33
ATOM	4993	CB	GLU C 172	53.224	117.565	191.455	1.00	56.30
ATOM	4994	CG	GLU C 172	51.697	117.664	191.508	1.00	61.07
ATOM	4995	CD	GLU C 172	51.203	119.077	191.265	1.00	63.36
ATOM	4996	OE1	GLU C 172	51.842	120.013	191.800	1.00	65.03
ATOM	4997	OE2	GLU C 172	50.181	119.250	190.556	1.00	61.82
ATOM	4998	N	SER C 173	55.999	116.897	191.209	1.00	53.09
ATOM	4999	CA	SER C 173	57.421	117.120	191.377	1.00	54.10
ATOM	5000	C	SER C 173	57.766	118.137	190.307	1.00	56.31
ATOM	5001	O	SER C 173	57.661	117.860	189.111	1.00	55.87
ATOM	5002	CB	SER C 173	58.212	115.835	191.141	1.00	54.38
ATOM	5003	OG	SER C 173	57.792	114.802	192.010	1.00	57.42
ATOM	5004	N	THR C 174	58.158	119.327	190.731	1.00	20.00
ATOM	5005	CG2	THR C 174	57.045	122.039	191.035	1.00	20.00
ATOM	5006	OG1	THR C 174	59.367	121.829	191.487	1.00	20.00
ATOM	5007	CB	THR C 174	58.419	121.745	190.437	1.00	20.00
ATOM	5008	CA	THR C 174	58.499	120.365	189.779	1.00	20.00
ATOM	5009	C	THR C 174	59.914	120.153	189.251	1.00	20.00
ATOM	5010	O	THR C 174	60.728	119.492	189.887	1.00	20.00
ATOM	5011	N	VAL C 175	60.188	120.710	188.078	1.00	65.32
ATOM	5012	CA	VAL C 175	61.498	120.616	187.444	1.00	71.15
ATOM	5013	C	VAL C 175	61.700	121.930	186.701	1.00	74.36
ATOM	5014	O	VAL C 175	60.752	122.443	186.106	1.00	77.42
ATOM	5015	CB	VAL C 175	61.540	119.477	186.415	1.00	71.61
ATOM	5016	CG1	VAL C 175	62.954	119.321	185.859	1.00	73.69
ATOM	5017	CG2	VAL C 175	61.058	118.196	187.052	1.00	73.66
ATOM	5018	N	LYS C 176	62.911	122.481	186.718	1.00	76.02
ATOM	5019	CA	LYS C 176	63.138	123.744	186.021	1.00	78.14
ATOM	5020	C	LYS C 176	62.894	123.563	184.526	1.00	79.94

ATOM	5021	O	LYS	C	176	63.097	122.474	183.982	1.00	79.65
ATOM	5022	CB	LYS	C	176	64.556	124.262	186.276	1.00	77.78
ATOM	5023	CG	LYS	C	176	64.823	124.643	187.725	1.00	78.76
ATOM	5024	CD	LYS	C	176	64.816	123.413	188.640	1.00	80.71
ATOM	5025	CE	LYS	C	176	63.801	123.540	189.781	1.00	79.75
ATOM	5026	NZ	LYS	C	176	64.122	124.656	190.717	1.00	77.47
ATOM	5027	N	LEU	C	177	62.450	124.632	183.871	1.00	81.45
ATOM	5028	CA	LEU	C	177	62.157	124.603	182.441	1.00	84.18
ATOM	5029	C	LEU	C	177	62.927	125.728	181.744	1.00	86.22
ATOM	5030	O	LEU	C	177	62.456	126.866	181.673	1.00	86.78
ATOM	5031	CB	LEU	C	177	60.646	124.760	182.232	1.00	82.84
ATOM	5032	CG	LEU	C	177	60.003	124.259	180.937	1.00	80.90
ATOM	5033	CD1	LEU	C	177	60.475	122.850	180.615	1.00	79.55
ATOM	5034	CD2	LEU	C	177	58.497	124.290	181.098	1.00	78.30
ATOM	5035	N	PRO	C	178	64.128	125.413	181.222	1.00	88.46
ATOM	5036	CA	PRO	C	178	65.054	126.312	180.519	1.00	91.36
ATOM	5037	C	PRO	C	178	64.734	126.698	179.073	1.00	94.03
ATOM	5038	O	PRO	C	178	65.444	126.285	178.154	1.00	93.49
ATOM	5039	CB	PRO	C	178	66.375	125.566	180.614	1.00	90.34
ATOM	5040	CG	PRO	C	178	65.935	124.161	180.446	1.00	89.91
ATOM	5041	CD	PRO	C	178	64.738	124.080	181.373	1.00	87.74
ATOM	5042	N	SER	C	179	63.685	127.504	178.892	1.00	97.61
ATOM	5043	CA	SER	C	179	63.237	127.998	177.580	1.00	100.13
ATOM	5044	C	SER	C	179	63.178	126.967	176.446	1.00	100.96
ATOM	5045	O	SER	C	179	62.096	126.663	175.934	1.00	100.62
ATOM	5046	CB	SER	C	179	64.100	129.192	177.150	1.00	100.12
ATOM	5047	OG	SER	C	179	63.934	130.289	178.039	1.00	100.23
ATOM	5048	N	ASP	C	180	64.339	126.454	176.045	1.00	102.00
ATOM	5049	CA	ASP	C	180	64.428	125.450	174.989	1.00	102.92
ATOM	5050	C	ASP	C	180	63.456	124.337	175.350	1.00	102.32
ATOM	5051	O	ASP	C	180	63.850	123.344	175.962	1.00	102.49
ATOM	5052	CB	ASP	C	180	65.839	124.855	174.924	1.00	105.40
ATOM	5053	CG	ASP	C	180	66.934	125.898	175.088	1.00	108.24
ATOM	5054	OD1	ASP	C	180	66.620	127.108	175.129	1.00	109.87
ATOM	5055	OD2	ASP	C	180	68.116	125.498	175.176	1.00	108.17
ATOM	5056	N	ALA	C	181	62.193	124.493	174.973	1.00	101.77
ATOM	5057	CA	ALA	C	181	61.192	123.489	175.296	1.00	101.48
ATOM	5058	C	ALA	C	181	60.239	123.227	174.146	1.00	100.79
ATOM	5059	O	ALA	C	181	60.282	122.173	173.510	1.00	99.51
ATOM	5060	CB	ALA	C	181	60.407	123.924	176.528	1.00	101.73
ATOM	5061	N	GLY	C	182	59.376	124.201	173.889	1.00	101.23
ATOM	5062	CA	GLY	C	182	58.400	124.058	172.828	1.00	101.55
ATOM	5063	C	GLY	C	182	57.180	123.320	173.346	1.00	100.62
ATOM	5064	O	GLY	C	182	56.160	123.936	173.661	1.00	100.35
ATOM	5065	N	SER	C	183	57.295	121.997	173.448	1.00	99.36
ATOM	5066	CA	SER	C	183	56.203	121.160	173.928	1.00	97.40
ATOM	5067	C	SER	C	183	56.502	119.685	173.707	1.00	96.04
ATOM	5068	O	SER	C	183	55.789	118.816	174.214	1.00	95.94
ATOM	5069	CB	SER	C	183	54.908	121.510	173.198	1.00	97.99
ATOM	5070	OG	SER	C	183	53.907	120.545	173.458	1.00	99.46
ATOM	5071	N	ASN	C	184	57.559	119.403	172.954	1.00	93.56
ATOM	5072	CA	ASN	C	184	57.909	118.022	172.656	1.00	91.67
ATOM	5073	C	ASN	C	184	58.514	117.254	173.828	1.00	90.06
ATOM	5074	O	ASN	C	184	59.732	117.069	173.903	1.00	90.06
ATOM	5075	CB	ASN	C	184	58.860	117.962	171.456	1.00	91.31
ATOM	5076	CG	ASN	C	184	59.028	116.548	170.923	1.00	91.14
ATOM	5077	OD1	ASN	C	184	58.043	115.847	170.674	1.00	89.90
ATOM	5078	ND2	ASN	C	184	60.274	116.124	170.741	1.00	89.51
ATOM	5079	N	ILE	C	185	57.659	116.784	174.730	1.00	86.87
ATOM	5080	CA	ILE	C	185	58.140	116.033	175.881	1.00	83.79
ATOM	5081	C	ILE	C	185	58.530	114.600	175.537	1.00	80.97
ATOM	5082	O	ILE	C	185	57.787	113.871	174.876	1.00	79.68

ATOM	5083	CB	ILE	C	185	57.102	116.001	177.018	1.00	83.49
ATOM	5084	CG1	ILE	C	185	56.888	117.416	177.572	1.00	83.02
ATOM	5085	CG2	ILE	C	185	57.558	115.039	178.102	1.00	82.39
ATOM	5086	CD1	ILE	C	185	58.174	118.217	177.776	1.00	83.61
ATOM	5087	N	THR	C	186	59.706	114.210	176.017	1.00	78.43
ATOM	5088	CA	THR	C	186	60.247	112.881	175.782	1.00	73.65
ATOM	5089	C	THR	C	186	60.887	112.368	177.069	1.00	69.83
ATOM	5090	O	THR	C	186	61.945	112.848	177.472	1.00	70.07
ATOM	5091	CB	THR	C	186	61.312	112.944	174.697	1.00	73.77
ATOM	5092	OG1	THR	C	186	61.000	114.022	173.807	1.00	74.50
ATOM	5093	CG2	THR	C	186	61.359	111.640	173.919	1.00	72.07
ATOM	5094	N	TYR	C	187	60.248	111.394	177.707	1.00	64.92
ATOM	5095	CA	TYR	C	187	60.771	110.842	178.949	1.00	61.67
ATOM	5096	C	TYR	C	187	60.723	109.315	178.963	1.00	59.90
ATOM	5097	O	TYR	C	187	60.040	108.693	178.149	1.00	59.17
ATOM	5098	CB	TYR	C	187	59.965	111.378	180.124	1.00	59.61
ATOM	5099	CG	TYR	C	187	58.604	110.741	180.229	1.00	59.20
ATOM	5100	CD1	TYR	C	187	57.523	111.235	179.508	1.00	58.47
ATOM	5101	CD2	TYR	C	187	58.396	109.632	181.041	1.00	59.65
ATOM	5102	CE1	TYR	C	187	56.271	110.642	179.597	1.00	58.58
ATOM	5103	CE2	TYR	C	187	57.146	109.034	181.138	1.00	58.31
ATOM	5104	CZ	TYR	C	187	56.092	109.545	180.418	1.00	58.62
ATOM	5105	OH	TYR	C	187	54.852	108.975	180.544	1.00	60.83
ATOM	5106	N	ARG	C	188	61.454	108.728	179.909	1.00	58.38
ATOM	5107	CA	ARG	C	188	61.532	107.275	180.099	1.00	53.57
ATOM	5108	C	ARG	C	188	61.547	107.009	181.602	1.00	47.79
ATOM	5109	O	ARG	C	188	62.094	107.804	182.353	1.00	47.71
ATOM	5110	CB	ARG	C	188	62.826	106.726	179.490	1.00	55.50
ATOM	5111	CG	ARG	C	188	63.017	107.037	178.018	1.00	59.28
ATOM	5112	CD	ARG	C	188	64.360	106.531	177.507	1.00	58.45
ATOM	5113	NE	ARG	C	188	64.468	105.079	177.574	1.00	60.89
ATOM	5114	CZ	ARG	C	188	63.657	104.244	176.934	1.00	60.97
ATOM	5115	NH1	ARG	C	188	62.681	104.721	176.179	1.00	60.80
ATOM	5116	NH2	ARG	C	188	63.814	102.935	177.050	1.00	60.54
ATOM	5117	N	THR	C	189	60.955	105.909	182.050	1.00	41.10
ATOM	5118	CA	THR	C	189	60.970	105.623	183.478	1.00	37.09
ATOM	5119	C	THR	C	189	61.698	104.338	183.808	1.00	38.12
ATOM	5120	O	THR	C	189	61.890	103.488	182.937	1.00	40.72
ATOM	5121	CB	THR	C	189	59.595	105.488	184.041	1.00	33.05
ATOM	5122	OG1	THR	C	189	58.974	104.330	183.474	1.00	33.83
ATOM	5123	CG2	THR	C	189	58.792	106.731	183.749	1.00	33.49
ATOM	5124	N	ILE	C	190	62.103	104.195	185.071	1.00	34.92
ATOM	5125	CA	ILE	C	190	62.809	103.003	185.502	1.00	33.25
ATOM	5126	C	ILE	C	190	61.813	102.056	186.150	1.00	35.06
ATOM	5127	O	ILE	C	190	61.160	102.424	187.120	1.00	36.90
ATOM	5128	CB	ILE	C	190	63.941	103.374	186.463	1.00	30.73
ATOM	5129	CG1	ILE	C	190	64.968	104.219	185.708	1.00	28.57
ATOM	5130	CG2	ILE	C	190	64.616	102.133	186.995	1.00	27.84
ATOM	5131	CD1	ILE	C	190	66.158	104.627	186.532	1.00	27.76
ATOM	5132	N	ASN	C	191	61.687	100.845	185.601	1.00	34.92
ATOM	5133	CA	ASN	C	191	60.725	99.865	186.117	1.00	35.27
ATOM	5134	C	ASN	C	191	61.189	98.973	187.269	1.00	33.76
ATOM	5135	O	ASN	C	191	62.372	98.935	187.612	1.00	33.41
ATOM	5136	CB	ASN	C	191	60.217	98.965	184.979	1.00	40.30
ATOM	5137	CG	ASN	C	191	61.270	97.981	184.493	1.00	41.74
ATOM	5138	OD1	ASN	C	191	61.824	97.212	185.272	1.00	41.77
ATOM	5139	ND2	ASN	C	191	61.542	98.000	183.200	1.00	45.80
ATOM	5140	N	ASP	C	192	60.229	98.233	187.827	1.00	30.69
ATOM	5141	CA	ASP	C	192	60.449	97.324	188.949	1.00	28.66
ATOM	5142	C	ASP	C	192	61.692	96.458	188.856	1.00	28.78
ATOM	5143	O	ASP	C	192	62.135	95.896	189.852	1.00	30.90
ATOM	5144	CB	ASP	C	192	59.235	96.420	189.132	1.00	30.64

ATOM	5145	CG	ASP	C	192	58.055	97.135	189.776	1.00	35.83
ATOM	5146	OD1	ASP	C	192	58.231	98.275	190.260	1.00	42.61
ATOM	5147	OD2	ASP	C	192	56.949	96.556	189.812	1.00	34.23
ATOM	5148	N	TYR	C	193	62.274	96.354	187.670	1.00	29.97
ATOM	5149	CA	TYR	C	193	63.457	95.523	187.497	1.00	29.61
ATOM	5150	C	TYR	C	193	64.690	96.346	187.183	1.00	32.19
ATOM	5151	O	TYR	C	193	65.725	95.808	186.754	1.00	31.59
ATOM	5152	CB	TYR	C	193	63.193	94.492	186.411	1.00	25.39
ATOM	5153	CG	TYR	C	193	61.903	93.773	186.664	1.00	23.96
ATOM	5154	CD1	TYR	C	193	61.764	92.936	187.759	1.00	24.93
ATOM	5155	CD2	TYR	C	193	60.800	93.977	185.855	1.00	23.71
ATOM	5156	CE1	TYR	C	193	60.560	92.322	188.039	1.00	27.61
ATOM	5157	CE2	TYR	C	193	59.582	93.363	186.127	1.00	22.51
ATOM	5158	CZ	TYR	C	193	59.466	92.535	187.217	1.00	23.74
ATOM	5159	OH	TYR	C	193	58.272	91.897	187.489	1.00	23.44
ATOM	5160	N	GLY	C	194	64.564	97.654	187.413	1.00	31.68
ATOM	5161	CA	GLY	C	194	65.669	98.570	187.208	1.00	34.08
ATOM	5162	C	GLY	C	194	66.012	98.732	185.754	1.00	36.27
ATOM	5163	O	GLY	C	194	67.143	99.103	185.402	1.00	34.89
ATOM	5164	N	ALA	C	195	65.018	98.449	184.915	1.00	38.40
ATOM	5165	CA	ALA	C	195	65.163	98.544	183.469	1.00	38.48
ATOM	5166	C	ALA	C	195	64.332	99.702	182.929	1.00	38.01
ATOM	5167	O	ALA	C	195	63.224	99.972	183.415	1.00	33.52
ATOM	5168	CB	ALA	C	195	64.725	97.229	182.820	1.00	40.96
ATOM	5169	N	LEU	C	196	64.892	100.383	181.932	1.00	38.03
ATOM	5170	CA	LEU	C	196	64.248	101.515	181.277	1.00	40.42
ATOM	5171	C	LEU	C	196	63.019	101.090	180.508	1.00	44.11
ATOM	5172	O	LEU	C	196	62.993	100.015	179.910	1.00	45.93
ATOM	5173	CB	LEU	C	196	65.198	102.154	180.281	1.00	37.42
ATOM	5174	CG	LEU	C	196	66.213	103.166	180.782	1.00	38.38
ATOM	5175	CD1	LEU	C	196	67.539	102.969	180.074	1.00	35.95
ATOM	5176	CD2	LEU	C	196	65.664	104.556	180.552	1.00	38.34
ATOM	5177	N	THR	C	197	62.000	101.938	180.520	1.00	46.90
ATOM	5178	CA	THR	C	197	60.792	101.654	179.769	1.00	49.66
ATOM	5179	C	THR	C	197	60.915	102.507	178.500	1.00	52.63
ATOM	5180	O	THR	C	197	61.719	103.446	178.447	1.00	51.46
ATOM	5181	CB	THR	C	197	59.495	102.019	180.565	1.00	49.04
ATOM	5182	OG1	THR	C	197	59.341	103.445	180.668	1.00	48.16
ATOM	5183	CG2	THR	C	197	59.556	101.415	181.942	1.00	49.44
ATOM	5184	N	PRO	C	198	60.130	102.181	177.462	1.00	53.58
ATOM	5185	CA	PRO	C	198	60.114	102.877	176.171	1.00	54.38
ATOM	5186	C	PRO	C	198	59.834	104.377	176.228	1.00	54.45
ATOM	5187	O	PRO	C	198	59.053	104.835	177.074	1.00	53.23
ATOM	5188	CB	PRO	C	198	59.030	102.129	175.400	1.00	58.98
ATOM	5189	CG	PRO	C	198	58.092	101.664	176.521	1.00	57.83
ATOM	5190	CD	PRO	C	198	59.081	101.146	177.512	1.00	53.07
ATOM	5191	N	LYS	C	199	60.458	105.127	175.309	1.00	53.70
ATOM	5192	CA	LYS	C	199	60.278	106.574	175.235	1.00	51.99
ATOM	5193	C	LYS	C	199	58.801	106.837	175.254	1.00	50.92
ATOM	5194	O	LYS	C	199	58.008	105.933	175.035	1.00	51.43
ATOM	5195	CB	LYS	C	199	60.869	107.151	173.951	1.00	50.31
ATOM	5196	CG	LYS	C	199	62.386	107.197	173.946	1.00	57.50
ATOM	5197	CD	LYS	C	199	62.936	108.088	172.828	1.00	60.17
ATOM	5198	CE	LYS	C	199	64.446	108.308	172.974	1.00	61.19
ATOM	5199	NZ	LYS	C	199	64.982	109.267	171.964	1.00	59.96
ATOM	5200	N	MET	C	200	58.425	108.071	175.536	1.00	51.04
ATOM	5201	CA	MET	C	200	57.018	108.426	175.569	1.00	52.76
ATOM	5202	C	MET	C	200	56.911	109.911	175.349	1.00	53.31
ATOM	5203	O	MET	C	200	57.873	110.643	175.588	1.00	54.04
ATOM	5204	CB	MET	C	200	56.389	108.011	176.904	1.00	52.04
ATOM	5205	CG	MET	C	200	56.157	106.505	176.994	1.00	52.52
ATOM	5206	SD	MET	C	200	55.724	105.889	178.617	1.00	56.73

ATOM	5207	CE	MET	C	200	53.992	106.238	178.655	1.00	56.28
ATOM	5208	N	THR	C	201	55.757	110.357	174.867	1.00	53.70
ATOM	5209	CA	THR	C	201	55.571	111.774	174.614	1.00	53.69
ATOM	5210	C	THR	C	201	54.666	112.415	175.651	1.00	55.26
ATOM	5211	O	THR	C	201	53.549	111.958	175.897	1.00	54.38
ATOM	5212	CB	THR	C	201	55.008	112.002	173.215	1.00	51.69
ATOM	5213	OG1	THR	C	201	55.859	111.347	172.265	1.00	46.28
ATOM	5214	CG2	THR	C	201	54.950	113.498	172.899	1.00	49.27
ATOM	5215	N	GLY	C	202	55.174	113.479	176.260	1.00	56.74
ATOM	5216	CA	GLY	C	202	54.426	114.177	177.285	1.00	62.01
ATOM	5217	C	GLY	C	202	53.025	114.612	176.906	1.00	64.37
ATOM	5218	O	GLY	C	202	52.816	115.293	175.903	1.00	65.68
ATOM	5219	N	VAL	C	203	52.066	114.216	177.735	1.00	66.84
ATOM	5220	CA	VAL	C	203	50.658	114.545	177.547	1.00	68.27
ATOM	5221	C	VAL	C	203	50.223	115.521	178.638	1.00	69.86
ATOM	5222	O	VAL	C	203	49.892	115.093	179.753	1.00	69.68
ATOM	5223	CB	VAL	C	203	49.784	113.275	177.664	1.00	69.06
ATOM	5224	CG1	VAL	C	203	48.302	113.635	177.544	1.00	66.70
ATOM	5225	CG2	VAL	C	203	50.200	112.266	176.607	1.00	66.96
ATOM	5226	N	MET	C	204	50.226	116.820	178.330	1.00	71.03
ATOM	5227	CA	MET	C	204	49.823	117.826	179.315	1.00	73.57
ATOM	5228	C	MET	C	204	48.414	117.534	179.795	1.00	74.49
ATOM	5229	O	MET	C	204	47.639	116.872	179.108	1.00	76.23
ATOM	5230	CB	MET	C	204	49.866	119.235	178.725	1.00	73.45
ATOM	5231	CG	MET	C	204	51.258	119.760	178.460	1.00	78.56
ATOM	5232	SD	MET	C	204	52.193	118.690	177.349	1.00	86.15
ATOM	5233	CE	MET	C	204	51.544	119.184	175.747	1.00	85.49
ATOM	5234	N	GLU	C	205	48.088	118.017	180.983	1.00	75.24
ATOM	5235	CA	GLU	C	205	46.763	117.805	181.536	1.00	76.99
ATOM	5236	C	GLU	C	205	45.864	118.954	181.096	1.00	77.92
ATOM	5237	O	GLU	C	205	44.834	118.685	180.442	1.00	77.88
ATOM	5238	CB	GLU	C	205	46.842	117.761	183.054	1.00	78.51
ATOM	5239	CG	GLU	C	205	47.584	118.940	183.629	1.00	82.11
ATOM	5240	CD	GLU	C	205	47.568	118.947	185.131	1.00	86.47
ATOM	5241	OE1	GLU	C	205	46.964	118.018	185.724	1.00	86.62
ATOM	5242	OE2	GLU	C	205	48.159	119.885	185.714	1.00	87.89
ATOM	5243	OXT	GLU	C	205	46.207	120.116	181.405	1.00	78.63
ATOM	5244	N	PHE	D	1	55.986	54.843	165.777	1.00	24.85
ATOM	5245	CA	PHE	D	1	56.409	55.806	166.830	1.00	19.68
ATOM	5246	C	PHE	D	1	55.722	57.152	166.571	1.00	17.87
ATOM	5247	O	PHE	D	1	55.683	57.656	165.447	1.00	13.96
ATOM	5248	CB	PHE	D	1	57.945	55.916	166.807	1.00	19.54
ATOM	5249	CG	PHE	D	1	58.506	56.941	167.753	1.00	19.73
ATOM	5250	CD1	PHE	D	1	58.582	58.279	167.383	1.00	19.71
ATOM	5251	CD2	PHE	D	1	58.930	56.568	169.024	1.00	17.19
ATOM	5252	CE1	PHE	D	1	59.059	59.215	168.253	1.00	19.42
ATOM	5253	CE2	PHE	D	1	59.409	57.490	169.903	1.00	13.91
ATOM	5254	CZ	PHE	D	1	59.476	58.823	169.523	1.00	24.62
ATOM	5255	N	ALA	D	2	55.149	57.725	167.616	1.00	18.36
ATOM	5256	CA	ALA	D	2	54.472	59.008	167.473	1.00	22.74
ATOM	5257	C	ALA	D	2	54.605	59.875	168.725	1.00	25.12
ATOM	5258	O	ALA	D	2	54.888	59.373	169.825	1.00	26.63
ATOM	5259	CB	ALA	D	2	53.015	58.784	167.160	1.00	21.95
ATOM	5260	N	CYS	D	3	54.407	61.177	168.566	1.00	22.30
ATOM	5261	CA	CYS	D	3	54.500	62.045	169.708	1.00	24.82
ATOM	5262	C	CYS	D	3	53.386	63.061	169.640	1.00	27.70
ATOM	5263	O	CYS	D	3	52.916	63.400	168.554	1.00	30.31
ATOM	5264	CB	CYS	D	3	55.834	62.763	169.720	1.00	27.78
ATOM	5265	SG	CYS	D	3	57.314	61.725	169.546	1.00	34.05
ATOM	5266	N	LYS	D	4	52.948	63.533	170.799	1.00	26.28
ATOM	5267	CA	LYS	D	4	51.908	64.527	170.836	1.00	28.84
ATOM	5268	C	LYS	D	4	52.318	65.577	171.852	1.00	30.64

ATOM	5269	O	LYS	D	4	53.102	65.327	172.773	1.00	31.43
ATOM	5270	CB	LYS	D	4	50.552	63.908	171.202	1.00	32.55
ATOM	5271	CG	LYS	D	4	50.269	63.788	172.704	1.00	41.26
ATOM	5272	CD	LYS	D	4	48.905	63.131	173.024	1.00	48.35
ATOM	5273	CE	LYS	D	4	47.678	63.843	172.379	1.00	56.28
ATOM	5274	NZ	LYS	D	4	47.388	63.487	170.933	1.00	56.46
ATOM	5275	N	THR	D	5	51.770	66.763	171.662	1.00	30.44
ATOM	5276	CA	THR	D	5	52.055	67.907	172.487	1.00	28.04
ATOM	5277	C	THR	D	5	51.038	67.967	173.614	1.00	31.60
ATOM	5278	O	THR	D	5	49.887	67.580	173.441	1.00	32.34
ATOM	5279	CB	THR	D	5	51.996	69.178	171.594	1.00	22.21
ATOM	5280	OG1	THR	D	5	53.227	69.895	171.692	1.00	21.66
ATOM	5281	CG2	THR	D	5	50.859	70.060	171.974	1.00	17.01
ATOM	5282	N	ALA	D	6	51.465	68.443	174.776	1.00	34.46
ATOM	5283	CA	ALA	D	6	50.567	68.559	175.912	1.00	33.67
ATOM	5284	C	ALA	D	6	49.304	69.270	175.480	1.00	35.02
ATOM	5285	O	ALA	D	6	48.227	68.929	175.934	1.00	35.41
ATOM	5286	CB	ALA	D	6	51.234	69.320	177.016	1.00	37.96
ATOM	5287	N	ASN	D	7	49.441	70.261	174.602	1.00	39.58
ATOM	5288	CA	ASN	D	7	48.289	71.012	174.093	1.00	43.85
ATOM	5289	C	ASN	D	7	47.442	70.147	173.174	1.00	45.69
ATOM	5290	O	ASN	D	7	46.386	70.574	172.704	1.00	48.99
ATOM	5291	CB	ASN	D	7	48.741	72.228	173.297	1.00	47.12
ATOM	5292	CG	ASN	D	7	49.199	73.359	174.168	1.00	54.52
ATOM	5293	OD1	ASN	D	7	48.400	73.954	174.897	1.00	59.96
ATOM	5294	ND2	ASN	D	7	50.498	73.676	174.101	1.00	57.20
ATOM	5295	N	GLY	D	8	47.921	68.941	172.894	1.00	44.90
ATOM	5296	CA	GLY	D	8	47.180	68.044	172.029	1.00	43.81
ATOM	5297	C	GLY	D	8	47.733	67.866	170.623	1.00	42.96
ATOM	5298	O	GLY	D	8	47.410	66.876	169.969	1.00	45.03
ATOM	5299	N	THR	D	9	48.561	68.801	170.149	1.00	41.11
ATOM	5300	CA	THR	D	9	49.127	68.721	168.795	1.00	36.02
ATOM	5301	C	THR	D	9	50.061	67.551	168.578	1.00	35.44
ATOM	5302	O	THR	D	9	50.967	67.327	169.383	1.00	36.85
ATOM	5303	CB	THR	D	9	49.868	69.982	168.449	1.00	30.83
ATOM	5304	OG1	THR	D	9	48.918	71.032	168.271	1.00	39.60
ATOM	5305	CG2	THR	D	9	50.643	69.805	167.188	1.00	25.98
ATOM	5306	N	ALA	D	10	49.864	66.824	167.475	1.00	31.48
ATOM	5307	CA	ALA	D	10	50.687	65.655	167.201	1.00	27.30
ATOM	5308	C	ALA	D	10	51.515	65.674	165.938	1.00	26.05
ATOM	5309	O	ALA	D	10	51.281	66.457	165.027	1.00	26.29
ATOM	5310	CB	ALA	D	10	49.825	64.431	167.195	1.00	26.53
ATOM	5311	N	ILE	D	11	52.505	64.794	165.914	1.00	24.42
ATOM	5312	CA	ILE	D	11	53.382	64.620	164.767	1.00	24.52
ATOM	5313	C	ILE	D	11	53.319	63.123	164.566	1.00	24.71
ATOM	5314	O	ILE	D	11	53.789	62.367	165.398	1.00	31.60
ATOM	5315	CB	ILE	D	11	54.829	65.018	165.065	1.00	22.32
ATOM	5316	CG1	ILE	D	11	54.897	66.499	165.436	1.00	26.43
ATOM	5317	CG2	ILE	D	11	55.685	64.749	163.852	1.00	23.44
ATOM	5318	CD1	ILE	D	11	56.304	67.018	165.681	1.00	23.32
ATOM	5319	N	PRO	D	12	52.720	62.673	163.466	1.00	22.34
ATOM	5320	CA	PRO	D	12	52.576	61.245	163.158	1.00	20.38
ATOM	5321	C	PRO	D	12	53.867	60.536	162.826	1.00	19.38
ATOM	5322	O	PRO	D	12	54.903	61.183	162.807	1.00	18.41
ATOM	5323	CB	PRO	D	12	51.601	61.261	161.992	1.00	23.03
ATOM	5324	CG	PRO	D	12	51.935	62.568	161.300	1.00	19.78
ATOM	5325	CD	PRO	D	12	52.081	63.515	162.437	1.00	20.15
ATOM	5326	N	ILE	D	13	53.800	59.221	162.577	1.00	18.49
ATOM	5327	CA	ILE	D	13	54.987	58.442	162.201	1.00	24.50
ATOM	5328	C	ILE	D	13	55.592	59.104	160.992	1.00	25.60
ATOM	5329	O	ILE	D	13	54.872	59.665	160.176	1.00	28.95
ATOM	5330	CB	ILE	D	13	54.682	56.987	161.767	1.00	27.56

ATOM	5331	CG1	ILE	D	13	53.409	56.962	160.946	1.00	30.75
ATOM	5332	CG2	ILE	D	13	54.650	56.043	162.966	1.00	31.16
ATOM	5333	CD1	ILE	D	13	52.843	55.575	160.789	1.00	35.22
ATOM	5334	N	GLY	D	14	56.908	59.017	160.862	1.00	26.94
ATOM	5335	CA	GLY	D	14	57.577	59.664	159.747	1.00	28.81
ATOM	5336	C	GLY	D	14	58.141	60.997	160.212	1.00	26.94
ATOM	5337	O	GLY	D	14	59.101	61.519	159.644	1.00	25.81
ATOM	5338	N	GLY	D	15	57.531	61.541	161.261	1.00	26.42
ATOM	5339	CA	GLY	D	15	57.977	62.802	161.812	1.00	27.28
ATOM	5340	C	GLY	D	15	57.333	64.025	161.193	1.00	28.06
ATOM	5341	O	GLY	D	15	56.392	63.937	160.406	1.00	33.24
ATOM	5342	N	GLY	D	16	57.865	65.182	161.545	1.00	24.11
ATOM	5343	CA	GLY	D	16	57.324	66.424	161.052	1.00	16.65
ATOM	5344	C	GLY	D	16	57.661	67.424	162.132	1.00	18.34
ATOM	5345	O	GLY	D	16	58.711	67.307	162.762	1.00	21.50
ATOM	5346	N	SER	D	17	56.786	68.388	162.382	1.00	13.14
ATOM	5347	CA	SER	D	17	57.100	69.358	163.397	1.00	11.19
ATOM	5348	C	SER	D	17	55.893	69.923	164.105	1.00	9.79
ATOM	5349	O	SER	D	17	54.770	69.678	163.720	1.00	9.52
ATOM	5350	CB	SER	D	17	57.923	70.468	162.779	1.00	11.57
ATOM	5351	OG	SER	D	17	57.164	71.124	161.792	1.00	17.32
ATOM	5352	N	ALA	D	18	56.134	70.665	165.179	1.00	12.65
ATOM	5353	CA	ALA	D	18	55.051	71.249	165.962	1.00	13.82
ATOM	5354	C	ALA	D	18	55.605	72.287	166.885	1.00	14.70
ATOM	5355	O	ALA	D	18	56.782	72.264	167.224	1.00	17.69
ATOM	5356	CB	ALA	D	18	54.346	70.180	166.796	1.00	10.27
ATOM	5357	N	ASN	D	19	54.729	73.189	167.296	1.00	17.13
ATOM	5358	CA	ASN	D	19	55.081	74.251	168.211	1.00	15.32
ATOM	5359	C	ASN	D	19	54.756	73.809	169.606	1.00	18.13
ATOM	5360	O	ASN	D	19	53.715	73.215	169.886	1.00	19.19
ATOM	5361	CB	ASN	D	19	54.277	75.511	167.926	1.00	14.17
ATOM	5362	CG	ASN	D	19	54.780	76.260	166.725	1.00	17.84
ATOM	5363	OD1	ASN	D	19	55.775	75.867	166.086	1.00	14.45
ATOM	5364	ND2	ASN	D	19	54.103	77.361	166.406	1.00	13.37
ATOM	5365	N	VAL	D	20	55.665	74.131	170.493	1.00	21.41
ATOM	5366	CA	VAL	D	20	55.514	73.820	171.891	1.00	23.55
ATOM	5367	C	VAL	D	20	55.608	75.161	172.597	1.00	23.05
ATOM	5368	O	VAL	D	20	56.687	75.748	172.672	1.00	23.66
ATOM	5369	CB	VAL	D	20	56.651	72.911	172.321	1.00	25.95
ATOM	5370	CG1	VAL	D	20	56.601	72.660	173.816	1.00	20.77
ATOM	5371	CG2	VAL	D	20	56.570	71.625	171.507	1.00	27.92
ATOM	5372	N	TYR	D	21	54.480	75.663	173.083	1.00	22.08
ATOM	5373	CA	TYR	D	21	54.480	76.953	173.780	1.00	21.82
ATOM	5374	C	TYR	D	21	54.745	76.794	175.292	1.00	21.77
ATOM	5375	O	TYR	D	21	54.218	75.881	175.934	1.00	19.07
ATOM	5376	CB	TYR	D	21	53.149	77.666	173.541	1.00	20.99
ATOM	5377	CG	TYR	D	21	52.742	77.679	172.082	1.00	18.95
ATOM	5378	CD1	TYR	D	21	52.056	76.615	171.521	1.00	17.81
ATOM	5379	CD2	TYR	D	21	53.091	78.742	171.258	1.00	20.05
ATOM	5380	CE1	TYR	D	21	51.734	76.606	170.184	1.00	20.31
ATOM	5381	CE2	TYR	D	21	52.776	78.743	169.918	1.00	22.06
ATOM	5382	CZ	TYR	D	21	52.100	77.674	169.382	1.00	22.53
ATOM	5383	OH	TYR	D	21	51.813	77.675	168.036	1.00	24.38
ATOM	5384	N	VAL	D	22	55.568	77.682	175.849	1.00	19.69
ATOM	5385	CA	VAL	D	22	55.912	77.621	177.263	1.00	17.57
ATOM	5386	C	VAL	D	22	55.790	78.924	178.013	1.00	19.37
ATOM	5387	O	VAL	D	22	56.046	79.994	177.468	1.00	20.30
ATOM	5388	CB	VAL	D	22	57.331	77.170	177.456	1.00	14.29
ATOM	5389	CG1	VAL	D	22	57.531	75.813	176.855	1.00	19.47
ATOM	5390	CG2	VAL	D	22	58.251	78.153	176.813	1.00	21.70
ATOM	5391	N	ASN	D	23	55.398	78.817	179.280	1.00	23.80
ATOM	5392	CA	ASN	D	23	55.283	79.966	180.172	1.00	24.63

ATOM	5393	C	ASN	D	23	56.513	79.838	181.078	1.00	27.56
ATOM	5394	O	ASN	D	23	56.547	78.980	181.966	1.00	30.26
ATOM	5395	CB	ASN	D	23	54.025	79.858	181.012	1.00	26.34
ATOM	5396	CG	ASN	D	23	52.812	79.534	180.196	1.00	29.65
ATOM	5397	OD1	ASN	D	23	52.363	80.332	179.381	1.00	37.39
ATOM	5398	ND2	ASN	D	23	52.268	78.349	180.405	1.00	34.92
ATOM	5399	N	LEU	D	24	57.530	80.667	180.834	1.00	26.97
ATOM	5400	CA	LEU	D	24	58.777	80.637	181.603	1.00	23.31
ATOM	5401	C	LEU	D	24	58.684	81.540	182.818	1.00	25.70
ATOM	5402	O	LEU	D	24	57.843	82.460	182.872	1.00	25.80
ATOM	5403	CB	LEU	D	24	59.935	81.092	180.727	1.00	19.60
ATOM	5404	CG	LEU	D	24	60.015	80.390	179.362	1.00	18.75
ATOM	5405	CD1	LEU	D	24	60.560	81.351	178.334	1.00	21.71
ATOM	5406	CD2	LEU	D	24	60.890	79.149	179.441	1.00	18.19
ATOM	5407	N	ALA	D	25	59.540	81.273	183.801	1.00	25.39
ATOM	5408	CA	ALA	D	25	59.554	82.074	185.027	1.00	23.22
ATOM	5409	C	ALA	D	25	59.751	83.530	184.625	1.00	24.12
ATOM	5410	O	ALA	D	25	60.729	83.894	183.946	1.00	25.70
ATOM	5411	CB	ALA	D	25	60.665	81.620	185.933	1.00	27.10
ATOM	5412	N	PRO	D	26	58.833	84.390	185.056	1.00	21.10
ATOM	5413	CA	PRO	D	26	58.839	85.827	184.762	1.00	23.65
ATOM	5414	C	PRO	D	26	60.149	86.556	185.044	1.00	24.68
ATOM	5415	O	PRO	D	26	60.571	87.426	184.289	1.00	24.35
ATOM	5416	CB	PRO	D	26	57.709	86.372	185.634	1.00	19.74
ATOM	5417	CG	PRO	D	26	56.875	85.180	185.930	1.00	24.93
ATOM	5418	CD	PRO	D	26	57.886	84.090	186.131	1.00	19.24
ATOM	5419	N	VAL	D	27	60.780	86.192	186.150	1.00	26.90
ATOM	5420	CA	VAL	D	27	62.008	86.826	186.578	1.00	25.64
ATOM	5421	C	VAL	D	27	63.106	85.828	186.883	1.00	25.87
ATOM	5422	O	VAL	D	27	62.878	84.810	187.514	1.00	24.73
ATOM	5423	CB	VAL	D	27	61.734	87.673	187.833	1.00	24.24
ATOM	5424	CG1	VAL	D	27	62.988	88.405	188.271	1.00	24.61
ATOM	5425	CG2	VAL	D	27	60.616	88.650	187.547	1.00	24.54
ATOM	5426	N	VAL	D	28	64.304	86.144	186.425	1.00	28.79
ATOM	5427	CA	VAL	D	28	65.461	85.303	186.644	1.00	32.10
ATOM	5428	C	VAL	D	28	66.651	86.245	186.806	1.00	35.80
ATOM	5429	O	VAL	D	28	66.892	87.115	185.966	1.00	37.07
ATOM	5430	CB	VAL	D	28	65.675	84.360	185.447	1.00	30.34
ATOM	5431	CG1	VAL	D	28	66.942	83.554	185.613	1.00	29.46
ATOM	5432	CG2	VAL	D	28	64.502	83.431	185.343	1.00	33.39
ATOM	5433	N	ASN	D	29	67.376	86.080	187.906	1.00	37.86
ATOM	5434	CA	ASN	D	29	68.531	86.916	188.207	1.00	36.81
ATOM	5435	C	ASN	D	29	69.787	86.294	187.635	1.00	35.14
ATOM	5436	O	ASN	D	29	69.822	85.094	187.368	1.00	33.84
ATOM	5437	CB	ASN	D	29	68.660	87.088	189.724	1.00	38.88
ATOM	5438	CG	ASN	D	29	67.498	87.887	190.322	1.00	46.13
ATOM	5439	OD1	ASN	D	29	67.362	89.090	190.073	1.00	48.62
ATOM	5440	ND2	ASN	D	29	66.652	87.216	191.104	1.00	47.12
ATOM	5441	N	VAL	D	30	70.814	87.112	187.430	1.00	33.09
ATOM	5442	CA	VAL	D	30	72.068	86.607	186.892	1.00	33.71
ATOM	5443	C	VAL	D	30	72.558	85.483	187.805	1.00	35.86
ATOM	5444	O	VAL	D	30	72.300	85.499	189.002	1.00	36.18
ATOM	5445	CB	VAL	D	30	73.125	87.722	186.816	1.00	28.94
ATOM	5446	CG1	VAL	D	30	74.386	87.219	186.141	1.00	30.26
ATOM	5447	CG2	VAL	D	30	72.568	88.886	186.048	1.00	31.02
ATOM	5448	N	GLY	D	31	73.236	84.489	187.240	1.00	38.85
ATOM	5449	CA	GLY	D	31	73.732	83.401	188.065	1.00	41.61
ATOM	5450	C	GLY	D	31	72.644	82.418	188.443	1.00	42.65
ATOM	5451	O	GLY	D	31	72.933	81.272	188.787	1.00	43.50
ATOM	5452	N	GLN	D	32	71.392	82.865	188.377	1.00	42.46
ATOM	5453	CA	GLN	D	32	70.246	82.019	188.702	1.00	43.14
ATOM	5454	C	GLN	D	32	69.893	81.166	187.474	1.00	43.63

ATOM	5455	O	GLN	D	32	70.505	81.295	186.411	1.00	44.95
ATOM	5456	CB	GLN	D	32	69.063	82.903	189.098	1.00	44.30
ATOM	5457	CG	GLN	D	32	67.965	82.223	189.880	1.00	48.24
ATOM	5458	CD	GLN	D	32	67.005	83.228	190.522	1.00	55.16
ATOM	5459	OE1	GLN	D	32	66.214	83.883	189.837	1.00	55.59
ATOM	5460	NE2	GLN	D	32	67.087	83.362	191.844	1.00	56.30
ATOM	5461	N	ASN	D	33	68.895	80.304	187.599	1.00	42.34
ATOM	5462	CA	ASN	D	33	68.537	79.453	186.475	1.00	39.92
ATOM	5463	C	ASN	D	33	67.129	79.523	185.902	1.00	41.43
ATOM	5464	O	ASN	D	33	66.126	79.703	186.607	1.00	39.74
ATOM	5465	CB	ASN	D	33	68.829	77.998	186.816	1.00	34.96
ATOM	5466	CG	ASN	D	33	70.106	77.516	186.202	1.00	34.93
ATOM	5467	OD1	ASN	D	33	70.539	76.387	186.436	1.00	29.41
ATOM	5468	ND2	ASN	D	33	70.725	78.369	185.399	1.00	36.25
ATOM	5469	N	LEU	D	34	67.081	79.374	184.587	1.00	41.69
ATOM	5470	CA	LEU	D	34	65.830	79.345	183.869	1.00	41.39
ATOM	5471	C	LEU	D	34	65.772	77.901	183.404	1.00	40.79
ATOM	5472	O	LEU	D	34	66.699	77.407	182.741	1.00	38.85
ATOM	5473	CB	LEU	D	34	65.851	80.286	182.667	1.00	40.48
ATOM	5474	CG	LEU	D	34	64.474	80.476	182.027	1.00	40.42
ATOM	5475	CD1	LEU	D	34	63.489	81.024	183.058	1.00	36.16
ATOM	5476	CD2	LEU	D	34	64.588	81.424	180.849	1.00	41.17
ATOM	5477	N	VAL	D	35	64.700	77.219	183.791	1.00	37.67
ATOM	5478	CA	VAL	D	35	64.532	75.836	183.424	1.00	36.23
ATOM	5479	C	VAL	D	35	63.262	75.700	182.607	1.00	36.08
ATOM	5480	O	VAL	D	35	62.200	76.202	182.992	1.00	35.80
ATOM	5481	CB	VAL	D	35	64.439	74.927	184.680	1.00	35.87
ATOM	5482	CG1	VAL	D	35	64.491	73.468	184.265	1.00	35.89
ATOM	5483	CG2	VAL	D	35	65.570	75.227	185.633	1.00	31.76
ATOM	5484	N	VAL	D	36	63.383	75.043	181.459	1.00	35.03
ATOM	5485	CA	VAL	D	36	62.230	74.822	180.601	1.00	33.30
ATOM	5486	C	VAL	D	36	62.120	73.322	180.561	1.00	33.70
ATOM	5487	O	VAL	D	36	62.825	72.668	179.798	1.00	33.47
ATOM	5488	CB	VAL	D	36	62.453	75.326	179.166	1.00	30.46
ATOM	5489	CG1	VAL	D	36	61.126	75.751	178.569	1.00	25.67
ATOM	5490	CG2	VAL	D	36	63.437	76.468	179.148	1.00	29.74
ATOM	5491	N	ASP	D	37	61.255	72.772	181.399	1.00	32.66
ATOM	5492	CA	ASP	D	37	61.113	71.334	181.441	1.00	35.51
ATOM	5493	C	ASP	D	37	60.121	70.888	180.401	1.00	36.79
ATOM	5494	O	ASP	D	37	58.912	71.032	180.591	1.00	39.24
ATOM	5495	CB	ASP	D	37	60.658	70.888	182.821	1.00	36.03
ATOM	5496	CG	ASP	D	37	60.929	69.426	183.063	1.00	41.83
ATOM	5497	OD1	ASP	D	37	61.758	68.848	182.301	1.00	37.39
ATOM	5498	OD2	ASP	D	37	60.326	68.870	184.019	1.00	44.67
ATOM	5499	N	LEU	D	38	60.633	70.336	179.304	1.00	35.78
ATOM	5500	CA	LEU	D	38	59.783	69.890	178.209	1.00	36.12
ATOM	5501	C	LEU	D	38	59.148	68.525	178.416	1.00	38.21
ATOM	5502	O	LEU	D	38	58.169	68.169	177.731	1.00	39.44
ATOM	5503	CB	LEU	D	38	60.578	69.920	176.911	1.00	32.78
ATOM	5504	CG	LEU	D	38	60.812	71.369	176.500	1.00	27.74
ATOM	5505	CD1	LEU	D	38	62.028	71.465	175.624	1.00	26.86
ATOM	5506	CD2	LEU	D	38	59.574	71.899	175.818	1.00	18.56
ATOM	5507	N	SER	D	39	59.703	67.782	179.375	1.00	38.57
ATOM	5508	CA	SER	D	39	59.226	66.453	179.746	1.00	34.97
ATOM	5509	C	SER	D	39	57.815	66.597	180.292	1.00	34.29
ATOM	5510	O	SER	D	39	57.235	65.646	180.811	1.00	35.11
ATOM	5511	CB	SER	D	39	60.121	65.868	180.829	1.00	32.64
ATOM	5512	OG	SER	D	39	60.013	66.640	182.010	1.00	30.75
ATOM	5513	N	THR	D	40	57.278	67.806	180.171	1.00	33.78
ATOM	5514	CA	THR	D	40	55.940	68.119	180.637	1.00	34.52
ATOM	5515	C	THR	D	40	55.039	68.434	179.468	1.00	36.12
ATOM	5516	O	THR	D	40	53.811	68.456	179.610	1.00	37.85

ATOM	5517	CB	THR	D	40	55.929	69.351	181.525	1.00	30.92
ATOM	5518	OG1	THR	D	40	56.958	69.244	182.503	1.00	31.74
ATOM	5519	CG2	THR	D	40	54.616	69.455	182.223	1.00	34.45
ATOM	5520	N	GLN	D	41	55.643	68.679	178.308	1.00	35.00
ATOM	5521	CA	GLN	D	41	54.848	69.025	177.153	1.00	32.99
ATOM	5522	C	GLN	D	41	55.091	68.230	175.891	1.00	33.14
ATOM	5523	O	GLN	D	41	54.466	68.489	174.862	1.00	35.18
ATOM	5524	CB	GLN	D	41	55.013	70.496	176.883	1.00	28.96
ATOM	5525	CG	GLN	D	41	54.684	71.289	178.086	1.00	25.98
ATOM	5526	CD	GLN	D	41	54.135	72.617	177.720	1.00	31.27
ATOM	5527	OE1	GLN	D	41	54.853	73.472	177.199	1.00	34.06
ATOM	5528	NE2	GLN	D	41	52.841	72.812	177.970	1.00	31.80
ATOM	5529	N	ILE	D	42	55.987	67.258	175.956	1.00	29.62
ATOM	5530	CA	ILE	D	42	56.236	66.443	174.785	1.00	29.14
ATOM	5531	C	ILE	D	42	56.206	64.962	175.129	1.00	30.33
ATOM	5532	O	ILE	D	42	57.053	64.463	175.868	1.00	28.83
ATOM	5533	CB	ILE	D	42	57.588	66.773	174.151	1.00	27.78
ATOM	5534	CG1	ILE	D	42	57.633	68.244	173.775	1.00	28.05
ATOM	5535	CG2	ILE	D	42	57.812	65.923	172.911	1.00	26.09
ATOM	5536	CD1	ILE	D	42	58.955	68.657	173.203	1.00	27.14
ATOM	5537	N	PHE	D	43	55.224	64.258	174.586	1.00	32.01
ATOM	5538	CA	PHE	D	43	55.125	62.838	174.827	1.00	35.11
ATOM	5539	C	PHE	D	43	55.201	62.015	173.554	1.00	36.64
ATOM	5540	O	PHE	D	43	54.712	62.419	172.501	1.00	38.94
ATOM	5541	CB	PHE	D	43	53.838	62.553	175.576	1.00	38.28
ATOM	5542	CG	PHE	D	43	53.742	63.298	176.853	1.00	41.39
ATOM	5543	CD1	PHE	D	43	53.320	64.622	176.860	1.00	41.29
ATOM	5544	CD2	PHE	D	43	54.201	62.724	178.038	1.00	39.33
ATOM	5545	CE1	PHE	D	43	53.365	65.369	178.030	1.00	43.92
ATOM	5546	CE2	PHE	D	43	54.251	63.460	179.211	1.00	39.73
ATOM	5547	CZ	PHE	D	43	53.837	64.786	179.211	1.00	40.36
ATOM	5548	N	CYS	D	44	55.829	60.854	173.660	1.00	37.53
ATOM	5549	CA	CYS	D	44	55.963	59.942	172.531	1.00	38.57
ATOM	5550	C	CYS	D	44	55.612	58.538	172.998	1.00	38.88
ATOM	5551	O	CYS	D	44	55.640	58.247	174.201	1.00	41.10
ATOM	5552	CB	CYS	D	44	57.393	59.944	172.010	1.00	39.57
ATOM	5553	SG	CYS	D	44	58.026	61.550	171.440	1.00	40.28
ATOM	5554	N	HIS	D	45	55.282	57.666	172.053	1.00	36.84
ATOM	5555	CA	HIS	D	45	54.935	56.293	172.400	1.00	35.65
ATOM	5556	C	HIS	D	45	55.415	55.383	171.312	1.00	33.73
ATOM	5557	O	HIS	D	45	55.622	55.811	170.186	1.00	37.25
ATOM	5558	CB	HIS	D	45	53.417	56.110	172.555	1.00	34.81
ATOM	5559	CG	HIS	D	45	52.657	56.254	171.276	1.00	35.85
ATOM	5560	ND1	HIS	D	45	51.927	57.382	170.964	1.00	38.86
ATOM	5561	CD2	HIS	D	45	52.582	55.448	170.192	1.00	38.82
ATOM	5562	CE1	HIS	D	45	51.444	57.268	169.740	1.00	38.38
ATOM	5563	NE2	HIS	D	45	51.829	56.105	169.249	1.00	40.54
ATOM	5564	N	ASN	D	46	55.583	54.119	171.660	1.00	33.04
ATOM	5565	CA	ASN	D	46	56.015	53.094	170.728	1.00	33.38
ATOM	5566	C	ASN	D	46	54.738	52.470	170.141	1.00	34.65
ATOM	5567	O	ASN	D	46	53.808	52.180	170.876	1.00	35.41
ATOM	5568	CB	ASN	D	46	56.812	52.061	171.497	1.00	32.18
ATOM	5569	CG	ASN	D	46	57.443	51.049	170.607	1.00	34.44
ATOM	5570	OD1	ASN	D	46	56.781	50.436	169.777	1.00	32.82
ATOM	5571	ND2	ASN	D	46	58.737	50.858	170.770	1.00	38.90
ATOM	5572	N	ASP	D	47	54.688	52.258	168.829	1.00	37.93
ATOM	5573	CA	ASP	D	47	53.481	51.715	168.186	1.00	43.34
ATOM	5574	C	ASP	D	47	53.272	50.195	168.180	1.00	45.85
ATOM	5575	O	ASP	D	47	52.154	49.711	168.360	1.00	46.78
ATOM	5576	CB	ASP	D	47	53.372	52.232	166.741	1.00	43.00
ATOM	5577	CG	ASP	D	47	52.790	53.637	166.661	1.00	44.13
ATOM	5578	OD1	ASP	D	47	51.784	53.903	167.354	1.00	42.68

ATOM	5579	OD2	ASP	D	47	53.325	54.471	165.897	1.00	44.15
ATOM	5580	N	TYR	D	48	54.331	49.439	167.943	1.00	48.31
ATOM	5581	CA	TYR	D	48	54.218	47.993	167.933	1.00	49.89
ATOM	5582	C	TYR	D	48	55.269	47.502	168.909	1.00	51.95
ATOM	5583	O	TYR	D	48	56.199	46.777	168.530	1.00	52.63
ATOM	5584	CB	TYR	D	48	54.478	47.460	166.529	1.00	51.28
ATOM	5585	CG	TYR	D	48	53.566	48.066	165.478	1.00	56.20
ATOM	5586	CD1	TYR	D	48	52.229	47.677	165.375	1.00	57.17
ATOM	5587	CD2	TYR	D	48	54.040	49.032	164.583	1.00	58.10
ATOM	5588	CE1	TYR	D	48	51.385	48.235	164.402	1.00	58.43
ATOM	5589	CE2	TYR	D	48	53.208	49.595	163.608	1.00	56.82
ATOM	5590	CZ	TYR	D	48	51.883	49.194	163.523	1.00	58.05
ATOM	5591	OH	TYR	D	48	51.055	49.759	162.577	1.00	55.80
ATOM	5592	N	PRO	D	49	55.123	47.895	170.195	1.00	53.15
ATOM	5593	CA	PRO	D	49	56.022	47.551	171.301	1.00	53.96
ATOM	5594	C	PRO	D	49	56.349	46.074	171.468	1.00	56.60
ATOM	5595	O	PRO	D	49	57.510	45.734	171.662	1.00	57.70
ATOM	5596	CB	PRO	D	49	55.310	48.133	172.519	1.00	50.29
ATOM	5597	CG	PRO	D	49	53.894	48.052	172.147	1.00	50.32
ATOM	5598	CD	PRO	D	49	53.905	48.534	170.724	1.00	51.09
ATOM	5599	N	GLU	D	50	55.341	45.204	171.386	1.00	58.58
ATOM	5600	CA	GLU	D	50	55.548	43.759	171.551	1.00	59.27
ATOM	5601	C	GLU	D	50	56.647	43.142	170.690	1.00	58.23
ATOM	5602	O	GLU	D	50	57.232	42.131	171.075	1.00	57.58
ATOM	5603	CB	GLU	D	50	54.257	42.983	171.286	1.00	61.53
ATOM	5604	CG	GLU	D	50	53.141	43.260	172.254	1.00	65.58
ATOM	5605	CD	GLU	D	50	52.547	44.630	172.053	1.00	69.28
ATOM	5606	OE1	GLU	D	50	52.206	44.960	170.900	1.00	70.49
ATOM	5607	OE2	GLU	D	50	52.415	45.376	173.045	1.00	75.64
ATOM	5608	N	THR	D	51	56.925	43.730	169.530	1.00	56.19
ATOM	5609	CA	THR	D	51	57.961	43.186	168.657	1.00	57.02
ATOM	5610	C	THR	D	51	59.023	44.180	168.210	1.00	54.32
ATOM	5611	O	THR	D	51	60.074	43.786	167.698	1.00	55.43
ATOM	5612	CB	THR	D	51	57.350	42.550	167.380	1.00	59.97
ATOM	5613	OG1	THR	D	51	56.309	43.393	166.861	1.00	59.40
ATOM	5614	CG2	THR	D	51	56.802	41.176	167.693	1.00	62.69
ATOM	5615	N	ILE	D	52	58.758	45.464	168.407	1.00	49.33
ATOM	5616	CA	ILE	D	52	59.698	46.478	167.973	1.00	43.04
ATOM	5617	C	ILE	D	52	60.169	47.381	169.088	1.00	39.60
ATOM	5618	O	ILE	D	52	59.374	47.833	169.905	1.00	37.11
ATOM	5619	CB	ILE	D	52	59.057	47.338	166.870	1.00	43.38
ATOM	5620	CG1	ILE	D	52	58.530	46.419	165.769	1.00	42.15
ATOM	5621	CG2	ILE	D	52	60.059	48.349	166.326	1.00	40.54
ATOM	5622	CD1	ILE	D	52	58.077	47.140	164.549	1.00	47.11
ATOM	5623	N	THR	D	53	61.470	47.640	169.121	1.00	39.00
ATOM	5624	CA	THR	D	53	62.037	48.528	170.130	1.00	39.69
ATOM	5625	C	THR	D	53	62.410	49.869	169.515	1.00	37.83
ATOM	5626	O	THR	D	53	63.031	49.925	168.449	1.00	37.47
ATOM	5627	CB	THR	D	53	63.293	47.942	170.775	1.00	42.21
ATOM	5628	OG1	THR	D	53	62.954	46.762	171.515	1.00	45.26
ATOM	5629	CG2	THR	D	53	63.911	48.965	171.713	1.00	44.97
ATOM	5630	N	ASP	D	54	62.038	50.943	170.205	1.00	36.32
ATOM	5631	CA	ASP	D	54	62.306	52.297	169.735	1.00	35.61
ATOM	5632	C	ASP	D	54	63.425	53.051	170.457	1.00	34.15
ATOM	5633	O	ASP	D	54	63.456	53.126	171.687	1.00	33.09
ATOM	5634	CB	ASP	D	54	61.029	53.132	169.819	1.00	35.75
ATOM	5635	CG	ASP	D	54	60.242	53.116	168.536	1.00	36.12
ATOM	5636	OD1	ASP	D	54	60.875	53.169	167.468	1.00	34.73
ATOM	5637	OD2	ASP	D	54	58.996	53.075	168.594	1.00	39.52
ATOM	5638	N	TYR	D	55	64.328	53.630	169.672	1.00	32.54
ATOM	5639	CA	TYR	D	55	65.445	54.411	170.200	1.00	32.86
ATOM	5640	C	TYR	D	55	65.267	55.898	169.884	1.00	30.12

ATOM	5641	O	TYR	D	55	65.260	56.295	168.723	1.00	32.15
ATOM	5642	CB	TYR	D	55	66.762	53.918	169.612	1.00	32.94
ATOM	5643	CG	TYR	D	55	66.962	52.430	169.761	1.00	35.70
ATOM	5644	CD1	TYR	D	55	67.135	51.851	171.022	1.00	33.58
ATOM	5645	CD2	TYR	D	55	66.962	51.595	168.637	1.00	35.34
ATOM	5646	CE1	TYR	D	55	67.305	50.477	171.158	1.00	36.63
ATOM	5647	CE2	TYR	D	55	67.127	50.223	168.758	1.00	35.50
ATOM	5648	CZ	TYR	D	55	67.299	49.670	170.016	1.00	37.68
ATOM	5649	OH	TYR	D	55	67.472	48.314	170.119	1.00	36.38
ATOM	5650	N	VAL	D	56	65.130	56.707	170.932	1.00	26.01
ATOM	5651	CA	VAL	D	56	64.940	58.136	170.801	1.00	21.79
ATOM	5652	C	VAL	D	56	66.122	58.962	171.303	1.00	21.97
ATOM	5653	O	VAL	D	56	66.595	58.754	172.406	1.00	19.68
ATOM	5654	CB	VAL	D	56	63.720	58.546	171.576	1.00	20.33
ATOM	5655	CG1	VAL	D	56	63.536	60.045	171.511	1.00	18.66
ATOM	5656	CG2	VAL	D	56	62.536	57.827	171.026	1.00	21.45
ATOM	5657	N	THR	D	57	66.581	59.911	170.490	1.00	22.56
ATOM	5658	CA	THR	D	57	67.691	60.787	170.864	1.00	23.58
ATOM	5659	C	THR	D	57	67.400	62.287	170.695	1.00	23.98
ATOM	5660	O	THR	D	57	66.392	62.686	170.106	1.00	21.64
ATOM	5661	CB	THR	D	57	68.925	60.530	170.002	1.00	23.17
ATOM	5662	OG1	THR	D	57	68.632	60.886	168.650	1.00	25.17
ATOM	5663	CG2	THR	D	57	69.316	59.097	170.049	1.00	26.19
ATOM	5664	N	LEU	D	58	68.304	63.107	171.227	1.00	23.34
ATOM	5665	CA	LEU	D	58	68.226	64.546	171.051	1.00	23.72
ATOM	5666	C	LEU	D	58	69.266	64.792	169.930	1.00	26.44
ATOM	5667	O	LEU	D	58	70.465	64.959	170.171	1.00	23.50
ATOM	5668	CB	LEU	D	58	68.605	65.283	172.331	1.00	21.52
ATOM	5669	CG	LEU	D	58	68.583	66.811	172.191	1.00	25.58
ATOM	5670	CD1	LEU	D	58	67.175	67.268	171.835	1.00	25.39
ATOM	5671	CD2	LEU	D	58	69.058	67.480	173.477	1.00	25.08
ATOM	5672	N	GLN	D	59	68.777	64.763	168.691	1.00	28.85
ATOM	5673	CA	GLN	D	59	69.587	64.925	167.493	1.00	29.02
ATOM	5674	C	GLN	D	59	70.347	66.239	167.496	1.00	31.02
ATOM	5675	O	GLN	D	59	71.562	66.267	167.275	1.00	30.42
ATOM	5676	CB	GLN	D	59	68.676	64.858	166.273	1.00	33.79
ATOM	5677	CG	GLN	D	59	69.148	63.960	165.155	1.00	39.41
ATOM	5678	CD	GLN	D	59	70.276	64.568	164.368	1.00	47.20
ATOM	5679	OE1	GLN	D	59	71.238	65.081	164.937	1.00	50.63
ATOM	5680	NE2	GLN	D	59	70.174	64.509	163.044	1.00	51.75
ATOM	5681	N	ARG	D	60	69.629	67.331	167.747	1.00	30.96
ATOM	5682	CA	ARG	D	60	70.236	68.661	167.778	1.00	32.02
ATOM	5683	C	ARG	D	60	69.434	69.502	168.754	1.00	32.24
ATOM	5684	O	ARG	D	60	68.324	69.122	169.128	1.00	33.03
ATOM	5685	CB	ARG	D	60	70.183	69.298	166.384	1.00	33.42
ATOM	5686	CG	ARG	D	60	71.152	70.447	166.139	1.00	36.72
ATOM	5687	CD	ARG	D	60	71.049	70.990	164.704	1.00	42.60
ATOM	5688	NE	ARG	D	60	70.642	69.975	163.720	1.00	53.43
ATOM	5689	CZ	ARG	D	60	71.363	68.913	163.344	1.00	56.42
ATOM	5690	NH1	ARG	D	60	72.571	68.685	163.855	1.00	58.74
ATOM	5691	NH2	ARG	D	60	70.864	68.059	162.454	1.00	55.19
ATOM	5692	N	GLY	D	61	69.997	70.636	169.164	1.00	31.67
ATOM	5693	CA	GLY	D	61	69.314	71.528	170.088	1.00	29.25
ATOM	5694	C	GLY	D	61	69.838	72.909	169.795	1.00	28.97
ATOM	5695	O	GLY	D	61	70.988	73.194	170.078	1.00	30.95
ATOM	5696	N	SER	D	62	69.003	73.772	169.233	1.00	29.06
ATOM	5697	CA	SER	D	62	69.441	75.114	168.867	1.00	28.99
ATOM	5698	C	SER	D	62	68.778	76.242	169.621	1.00	26.67
ATOM	5699	O	SER	D	62	67.613	76.145	169.976	1.00	25.80
ATOM	5700	CB	SER	D	62	69.217	75.339	167.372	1.00	28.85
ATOM	5701	OG	SER	D	62	69.876	74.345	166.621	1.00	26.87
ATOM	5702	N	ALA	D	63	69.528	77.325	169.815	1.00	26.68

ATOM	5703	CA	ALA	D	63	69.036	78.510	170.525	1.00	27.10
ATOM	5704	C	ALA	D	63	68.655	79.612	169.564	1.00	25.74
ATOM	5705	O	ALA	D	63	69.220	79.736	168.477	1.00	24.68
ATOM	5706	CB	ALA	D	63	70.096	79.032	171.488	1.00	33.36
ATOM	5707	N	TYR	D	64	67.711	80.434	169.987	1.00	25.67
ATOM	5708	CA	TYR	D	64	67.221	81.514	169.153	1.00	27.52
ATOM	5709	C	TYR	D	64	66.891	82.727	169.976	1.00	27.44
ATOM	5710	O	TYR	D	64	66.609	82.619	171.168	1.00	29.01
ATOM	5711	CB	TYR	D	64	65.947	81.084	168.410	1.00	31.50
ATOM	5712	CG	TYR	D	64	66.184	80.029	167.366	1.00	30.35
ATOM	5713	CD1	TYR	D	64	66.331	78.698	167.721	1.00	34.21
ATOM	5714	CD2	TYR	D	64	66.372	80.379	166.040	1.00	26.62
ATOM	5715	CE1	TYR	D	64	66.677	77.744	166.780	1.00	33.30
ATOM	5716	CE2	TYR	D	64	66.708	79.443	165.102	1.00	30.25
ATOM	5717	CZ	TYR	D	64	66.868	78.128	165.476	1.00	33.33
ATOM	5718	OH	TYR	D	64	67.265	77.200	164.547	1.00	44.03
ATOM	5719	N	GLY	D	65	66.913	83.881	169.320	1.00	26.84
ATOM	5720	CA	GLY	D	65	66.584	85.129	169.979	1.00	25.65
ATOM	5721	C	GLY	D	65	67.241	85.316	171.326	1.00	26.43
ATOM	5722	O	GLY	D	65	68.430	85.008	171.516	1.00	26.05
ATOM	5723	N	GLY	D	66	66.458	85.827	172.269	1.00	24.81
ATOM	5724	CA	GLY	D	66	66.976	86.063	173.600	1.00	22.69
ATOM	5725	C	GLY	D	66	67.916	84.985	174.087	1.00	21.89
ATOM	5726	O	GLY	D	66	69.095	85.221	174.269	1.00	22.13
ATOM	5727	N	VAL	D	67	67.395	83.788	174.293	1.00	22.99
ATOM	5728	CA	VAL	D	67	68.204	82.692	174.799	1.00	25.64
ATOM	5729	C	VAL	D	67	69.595	82.601	174.195	1.00	26.33
ATOM	5730	O	VAL	D	67	70.550	82.194	174.862	1.00	26.03
ATOM	5731	CB	VAL	D	67	67.488	81.356	174.574	1.00	27.86
ATOM	5732	CG1	VAL	D	67	68.460	80.184	174.798	1.00	25.05
ATOM	5733	CG2	VAL	D	67	66.294	81.261	175.520	1.00	28.34
ATOM	5734	N	LEU	D	68	69.698	83.010	172.941	1.00	24.28
ATOM	5735	CA	LEU	D	68	70.937	82.925	172.194	1.00	25.02
ATOM	5736	C	LEU	D	68	71.981	84.000	172.481	1.00	28.30
ATOM	5737	O	LEU	D	68	73.173	83.850	172.163	1.00	28.23
ATOM	5738	CB	LEU	D	68	70.582	82.929	170.712	1.00	23.37
ATOM	5739	CG	LEU	D	68	71.692	82.656	169.718	1.00	16.44
ATOM	5740	CD1	LEU	D	68	72.401	81.342	170.069	1.00	15.08
ATOM	5741	CD2	LEU	D	68	71.080	82.632	168.358	1.00	7.02
ATOM	5742	N	SER	D	69	71.535	85.093	173.075	1.00	30.23
ATOM	5743	CA	SER	D	69	72.439	86.182	173.381	1.00	31.09
ATOM	5744	C	SER	D	69	72.553	86.423	174.863	1.00	31.42
ATOM	5745	O	SER	D	69	73.614	86.785	175.347	1.00	35.19
ATOM	5746	CB	SER	D	69	71.959	87.467	172.723	1.00	30.86
ATOM	5747	OG	SER	D	69	70.745	87.902	173.297	1.00	33.81
ATOM	5748	N	ASN	D	70	71.459	86.215	175.582	1.00	31.15
ATOM	5749	CA	ASN	D	70	71.441	86.460	177.009	1.00	29.61
ATOM	5750	C	ASN	D	70	71.666	85.244	177.885	1.00	28.72
ATOM	5751	O	ASN	D	70	71.626	85.355	179.105	1.00	26.21
ATOM	5752	CB	ASN	D	70	70.119	87.120	177.387	1.00	34.28
ATOM	5753	CG	ASN	D	70	69.874	88.409	176.625	1.00	36.61
ATOM	5754	OD1	ASN	D	70	70.788	89.195	176.432	1.00	44.91
ATOM	5755	ND2	ASN	D	70	68.634	88.639	176.207	1.00	39.61
ATOM	5756	N	PHE	D	71	71.897	84.081	177.289	1.00	28.23
ATOM	5757	CA	PHE	D	71	72.107	82.900	178.113	1.00	28.00
ATOM	5758	C	PHE	D	71	73.226	81.939	177.728	1.00	29.07
ATOM	5759	O	PHE	D	71	73.735	81.920	176.617	1.00	30.13
ATOM	5760	CB	PHE	D	71	70.810	82.101	178.244	1.00	26.61
ATOM	5761	CG	PHE	D	71	69.687	82.859	178.877	1.00	27.62
ATOM	5762	CD1	PHE	D	71	69.049	83.896	178.190	1.00	30.29
ATOM	5763	CD2	PHE	D	71	69.243	82.522	180.149	1.00	26.07
ATOM	5764	CE1	PHE	D	71	67.976	84.585	178.761	1.00	31.20

ATOM	5765	CE2	PHE	D	71	68.164	83.201	180.741	1.00	28.56
ATOM	5766	CZ	PHE	D	71	67.530	84.235	180.047	1.00	31.94
ATOM	5767	N	SER	D	72	73.591	81.130	178.703	1.00	31.37
ATOM	5768	CA	SER	D	72	74.618	80.123	178.573	1.00	33.48
ATOM	5769	C	SER	D	72	74.025	78.949	179.342	1.00	34.66
ATOM	5770	O	SER	D	72	73.690	79.083	180.525	1.00	33.75
ATOM	5771	CB	SER	D	72	75.901	80.610	179.247	1.00	35.16
ATOM	5772	OG	SER	D	72	76.795	79.535	179.504	1.00	40.64
ATOM	5773	N	GLY	D	73	73.876	77.803	178.690	1.00	34.16
ATOM	5774	CA	GLY	D	73	73.291	76.691	179.406	1.00	33.98
ATOM	5775	C	GLY	D	73	73.621	75.285	178.976	1.00	35.30
ATOM	5776	O	GLY	D	73	74.502	75.032	178.152	1.00	34.74
ATOM	5777	N	THR	D	74	72.881	74.357	179.569	1.00	36.51
ATOM	5778	CA	THR	D	74	73.052	72.943	179.290	1.00	36.57
ATOM	5779	C	THR	D	74	71.699	72.343	178.957	1.00	37.71
ATOM	5780	O	THR	D	74	70.648	72.930	179.247	1.00	34.42
ATOM	5781	CB	THR	D	74	73.603	72.168	180.530	1.00	36.43
ATOM	5782	OG1	THR	D	74	72.680	72.295	181.631	1.00	27.52
ATOM	5783	CG2	THR	D	74	74.982	72.690	180.931	1.00	30.01
ATOM	5784	N	VAL	D	75	71.744	71.171	178.335	1.00	38.43
ATOM	5785	CA	VAL	D	75	70.538	70.431	178.006	1.00	37.08
ATOM	5786	C	VAL	D	75	70.675	69.115	178.776	1.00	38.91
ATOM	5787	O	VAL	D	75	71.599	68.321	178.537	1.00	37.35
ATOM	5788	CB	VAL	D	75	70.393	70.164	176.464	1.00	34.79
ATOM	5789	CG1	VAL	D	75	71.545	69.311	175.935	1.00	26.71
ATOM	5790	CG2	VAL	D	75	69.048	69.491	176.189	1.00	30.18
ATOM	5791	N	LYS	D	76	69.783	68.914	179.739	1.00	38.03
ATOM	5792	CA	LYS	D	76	69.809	67.703	180.527	1.00	39.01
ATOM	5793	C	LYS	D	76	68.915	66.667	179.840	1.00	38.07
ATOM	5794	O	LYS	D	76	67.689	66.770	179.886	1.00	37.07
ATOM	5795	CB	LYS	D	76	69.305	68.004	181.937	1.00	42.25
ATOM	5796	CG	LYS	D	76	69.448	66.837	182.906	1.00	50.47
ATOM	5797	CD	LYS	D	76	68.690	67.101	184.212	1.00	55.10
ATOM	5798	CE	LYS	D	76	68.879	65.968	185.222	1.00	59.32
ATOM	5799	NZ	LYS	D	76	68.169	66.258	186.505	1.00	58.76
ATOM	5800	N	TYR	D	77	69.527	65.680	179.194	1.00	36.86
ATOM	5801	CA	TYR	D	77	68.762	64.643	178.502	1.00	39.77
ATOM	5802	C	TYR	D	77	68.793	63.296	179.197	1.00	40.67
ATOM	5803	O	TYR	D	77	69.732	62.516	178.999	1.00	39.42
ATOM	5804	CB	TYR	D	77	69.268	64.452	177.060	1.00	39.74
ATOM	5805	CG	TYR	D	77	68.437	63.484	176.228	1.00	38.94
ATOM	5806	CD1	TYR	D	77	67.048	63.630	176.125	1.00	39.68
ATOM	5807	CD2	TYR	D	77	69.043	62.463	175.496	1.00	39.35
ATOM	5808	CE1	TYR	D	77	66.292	62.791	175.307	1.00	40.59
ATOM	5809	CE2	TYR	D	77	68.296	61.611	174.671	1.00	38.07
ATOM	5810	CZ	TYR	D	77	66.919	61.784	174.577	1.00	41.09
ATOM	5811	OH	TYR	D	77	66.165	60.984	173.733	1.00	38.79
ATOM	5812	N	SER	D	78	67.768	63.025	180.001	1.00	41.35
ATOM	5813	CA	SER	D	78	67.663	61.751	180.698	1.00	44.62
ATOM	5814	C	SER	D	78	68.790	61.547	181.717	1.00	45.17
ATOM	5815	O	SER	D	78	69.623	60.646	181.587	1.00	45.61
ATOM	5816	CB	SER	D	78	67.651	60.617	179.657	1.00	46.92
ATOM	5817	OG	SER	D	78	67.337	59.363	180.223	1.00	50.31
ATOM	5818	N	GLY	D	79	68.827	62.408	182.723	1.00	46.28
ATOM	5819	CA	GLY	D	79	69.832	62.278	183.762	1.00	50.34
ATOM	5820	C	GLY	D	79	71.259	62.616	183.382	1.00	52.64
ATOM	5821	O	GLY	D	79	72.193	62.356	184.143	1.00	53.98
ATOM	5822	N	SER	D	80	71.443	63.190	182.204	1.00	53.40
ATOM	5823	CA	SER	D	80	72.776	63.578	181.773	1.00	52.83
ATOM	5824	C	SER	D	80	72.675	64.947	181.126	1.00	52.36
ATOM	5825	O	SER	D	80	71.679	65.271	180.470	1.00	53.47
ATOM	5826	CB	SER	D	80	73.319	62.552	180.794	1.00	51.63

ATOM	5827	OG	SER	D	80	73.082	61.259	181.314	1.00	55.65
ATOM	5828	N	SER	D	81	73.690	65.771	181.331	1.00	49.51
ATOM	5829	CA	SER	D	81	73.656	67.092	180.747	1.00	46.51
ATOM	5830	C	SER	D	81	74.740	67.243	179.714	1.00	44.10
ATOM	5831	O	SER	D	81	75.759	66.563	179.761	1.00	41.98
ATOM	5832	CB	SER	D	81	73.780	68.175	181.828	1.00	45.76
ATOM	5833	OG	SER	D	81	72.538	68.376	182.499	1.00	47.34
ATOM	5834	N	TYR	D	82	74.473	68.114	178.750	1.00	43.16
ATOM	5835	CA	TYR	D	82	75.400	68.406	177.672	1.00	40.51
ATOM	5836	C	TYR	D	82	75.224	69.883	177.357	1.00	39.64
ATOM	5837	O	TYR	D	82	74.271	70.524	177.808	1.00	39.35
ATOM	5838	CB	TYR	D	82	75.069	67.595	176.424	1.00	39.88
ATOM	5839	CG	TYR	D	82	74.753	66.144	176.667	1.00	42.19
ATOM	5840	CD1	TYR	D	82	73.607	65.768	177.363	1.00	41.17
ATOM	5841	CD2	TYR	D	82	75.565	65.141	176.144	1.00	44.55
ATOM	5842	CE1	TYR	D	82	73.270	64.434	177.523	1.00	43.32
ATOM	5843	CE2	TYR	D	82	75.236	63.799	176.296	1.00	47.02
ATOM	5844	CZ	TYR	D	82	74.084	63.453	176.982	1.00	46.62
ATOM	5845	OH	TYR	D	82	73.725	62.130	177.090	1.00	49.57
ATOM	5846	N	PRO	D	83	76.143	70.442	176.577	1.00	38.28
ATOM	5847	CA	PRO	D	83	76.115	71.852	176.184	1.00	39.73
ATOM	5848	C	PRO	D	83	74.878	72.228	175.363	1.00	41.03
ATOM	5849	O	PRO	D	83	74.367	71.411	174.602	1.00	45.38
ATOM	5850	CB	PRO	D	83	77.390	72.002	175.363	1.00	41.53
ATOM	5851	CG	PRO	D	83	78.289	70.920	175.906	1.00	41.49
ATOM	5852	CD	PRO	D	83	77.362	69.774	176.091	1.00	40.19
ATOM	5853	N	PHE	D	84	74.401	73.460	175.514	1.00	40.54
ATOM	5854	CA	PHE	D	84	73.253	73.935	174.747	1.00	38.40
ATOM	5855	C	PHE	D	84	73.467	75.396	174.359	1.00	39.04
ATOM	5856	O	PHE	D	84	73.574	76.252	175.234	1.00	40.83
ATOM	5857	CB	PHE	D	84	71.965	73.823	175.555	1.00	36.34
ATOM	5858	CG	PHE	D	84	70.748	74.283	174.805	1.00	36.04
ATOM	5859	CD1	PHE	D	84	70.229	73.522	173.767	1.00	36.07
ATOM	5860	CD2	PHE	D	84	70.149	75.502	175.097	1.00	35.63
ATOM	5861	CE1	PHE	D	84	69.130	73.971	173.023	1.00	34.17
ATOM	5862	CE2	PHE	D	84	69.048	75.957	174.355	1.00	32.88
ATOM	5863	CZ	PHE	D	84	68.544	75.185	173.319	1.00	29.79
ATOM	5864	N	PRO	D	85	73.523	75.709	173.045	1.00	38.84
ATOM	5865	CA	PRO	D	85	73.400	74.832	171.874	1.00	38.72
ATOM	5866	C	PRO	D	85	74.184	73.542	171.954	1.00	38.71
ATOM	5867	O	PRO	D	85	75.234	73.473	172.581	1.00	38.27
ATOM	5868	CB	PRO	D	85	73.851	75.724	170.735	1.00	33.89
ATOM	5869	CG	PRO	D	85	73.226	77.000	171.135	1.00	36.32
ATOM	5870	CD	PRO	D	85	73.583	77.111	172.604	1.00	34.73
ATOM	5871	N	THR	D	86	73.640	72.522	171.312	1.00	38.77
ATOM	5872	CA	THR	D	86	74.220	71.205	171.304	1.00	38.95
ATOM	5873	C	THR	D	86	75.312	71.096	170.271	1.00	41.17
ATOM	5874	O	THR	D	86	75.264	71.765	169.246	1.00	42.99
ATOM	5875	CB	THR	D	86	73.145	70.176	170.977	1.00	41.86
ATOM	5876	OG1	THR	D	86	72.696	70.365	169.626	1.00	36.20
ATOM	5877	CG2	THR	D	86	71.965	70.334	171.933	1.00	38.58
ATOM	5878	N	THR	D	87	76.293	70.242	170.537	1.00	43.33
ATOM	5879	CA	THR	D	87	77.381	70.046	169.596	1.00	46.29
ATOM	5880	C	THR	D	87	77.508	68.605	169.115	1.00	49.00
ATOM	5881	O	THR	D	87	78.255	68.336	168.170	1.00	50.25
ATOM	5882	CB	THR	D	87	78.699	70.484	170.192	1.00	44.50
ATOM	5883	OG1	THR	D	87	78.622	70.390	171.614	1.00	51.37
ATOM	5884	CG2	THR	D	87	79.001	71.902	169.793	1.00	45.97
ATOM	5885	N	SER	D	88	76.779	67.685	169.756	1.00	49.85
ATOM	5886	CA	SER	D	88	76.801	66.271	169.365	1.00	48.01
ATOM	5887	C	SER	D	88	75.479	65.596	169.704	1.00	47.47
ATOM	5888	O	SER	D	88	74.830	65.973	170.691	1.00	47.81

ATOM	5889	CB	SER	D	88	77.916	65.531	170.099	1.00	48.76
ATOM	5890	OG	SER	D	88	77.489	65.163	171.398	1.00	51.44
ATOM	5891	N	GLU	D	89	75.092	64.598	168.903	1.00	44.94
ATOM	5892	CA	GLU	D	89	73.851	63.851	169.146	1.00	43.73
ATOM	5893	C	GLU	D	89	74.042	63.072	170.438	1.00	42.28
ATOM	5894	O	GLU	D	89	75.124	62.558	170.711	1.00	41.64
ATOM	5895	CB	GLU	D	89	73.554	62.869	168.011	1.00	44.69
ATOM	5896	CG	GLU	D	89	72.118	62.352	168.009	1.00	45.18
ATOM	5897	CD	GLU	D	89	71.849	61.335	166.903	1.00	46.30
ATOM	5898	OE1	GLU	D	89	72.513	61.407	165.841	1.00	45.66
ATOM	5899	OE2	GLU	D	89	70.959	60.472	167.093	1.00	43.88
ATOM	5900	N	THR	D	90	72.987	62.978	171.233	1.00	41.93
ATOM	5901	CA	THR	D	90	73.073	62.296	172.514	1.00	40.62
ATOM	5902	C	THR	D	90	72.797	60.820	172.441	1.00	41.32
ATOM	5903	O	THR	D	90	72.339	60.305	171.426	1.00	40.82
ATOM	5904	CB	THR	D	90	72.078	62.855	173.515	1.00	37.74
ATOM	5905	OG1	THR	D	90	70.756	62.658	173.004	1.00	36.61
ATOM	5906	CG2	THR	D	90	72.341	64.319	173.775	1.00	37.49
ATOM	5907	N	PRO	D	91	73.079	60.114	173.542	1.00	43.46
ATOM	5908	CA	PRO	D	91	72.854	58.674	173.623	1.00	42.39
ATOM	5909	C	PRO	D	91	71.382	58.444	173.341	1.00	39.39
ATOM	5910	O	PRO	D	91	70.597	59.391	173.349	1.00	37.24
ATOM	5911	CB	PRO	D	91	73.210	58.360	175.068	1.00	44.96
ATOM	5912	CG	PRO	D	91	74.283	59.359	175.363	1.00	47.58
ATOM	5913	CD	PRO	D	91	73.722	60.614	174.771	1.00	44.80
ATOM	5914	N	ARG	D	92	71.010	57.196	173.098	1.00	38.40
ATOM	5915	CA	ARG	D	92	69.620	56.880	172.818	1.00	39.54
ATOM	5916	C	ARG	D	92	68.854	56.380	174.042	1.00	36.23
ATOM	5917	O	ARG	D	92	69.402	55.734	174.925	1.00	35.51
ATOM	5918	CB	ARG	D	92	69.516	55.870	171.649	1.00	42.02
ATOM	5919	CG	ARG	D	92	70.432	54.660	171.741	1.00	53.93
ATOM	5920	CD	ARG	D	92	70.313	53.766	170.508	1.00	59.91
ATOM	5921	NE	ARG	D	92	70.963	52.456	170.670	1.00	69.35
ATOM	5922	CZ	ARG	D	92	70.711	51.589	171.658	1.00	71.90
ATOM	5923	NH1	ARG	D	92	69.820	51.880	172.599	1.00	72.46
ATOM	5924	NH2	ARG	D	92	71.337	50.414	171.698	1.00	73.25
ATOM	5925	N	VAL	D	93	67.583	56.740	174.092	1.00	34.34
ATOM	5926	CA	VAL	D	93	66.689	56.333	175.157	1.00	34.99
ATOM	5927	C	VAL	D	93	65.719	55.379	174.487	1.00	36.06
ATOM	5928	O	VAL	D	93	65.436	55.536	173.306	1.00	37.84
ATOM	5929	CB	VAL	D	93	65.887	57.519	175.688	1.00	34.22
ATOM	5930	CG1	VAL	D	93	64.863	57.034	176.703	1.00	27.21
ATOM	5931	CG2	VAL	D	93	66.830	58.555	176.276	1.00	33.36
ATOM	5932	N	VAL	D	94	65.199	54.398	175.211	1.00	34.89
ATOM	5933	CA	VAL	D	94	64.285	53.489	174.555	1.00	35.56
ATOM	5934	C	VAL	D	94	62.849	53.703	174.926	1.00	34.99
ATOM	5935	O	VAL	D	94	62.520	54.084	176.046	1.00	33.66
ATOM	5936	CB	VAL	D	94	64.614	52.009	174.821	1.00	37.32
ATOM	5937	CG1	VAL	D	94	65.979	51.674	174.246	1.00	40.04
ATOM	5938	CG2	VAL	D	94	64.552	51.719	176.300	1.00	38.97
ATOM	5939	N	TYR	D	95	61.999	53.473	173.940	1.00	35.31
ATOM	5940	CA	TYR	D	95	60.568	53.584	174.107	1.00	33.38
ATOM	5941	C	TYR	D	95	60.068	52.207	173.698	1.00	33.86
ATOM	5942	O	TYR	D	95	60.339	51.740	172.586	1.00	33.96
ATOM	5943	CB	TYR	D	95	60.007	54.692	173.210	1.00	29.80
ATOM	5944	CG	TYR	D	95	60.237	56.079	173.770	1.00	25.72
ATOM	5945	CD1	TYR	D	95	61.485	56.665	173.725	1.00	24.72
ATOM	5946	CD2	TYR	D	95	59.203	56.783	174.389	1.00	31.05
ATOM	5947	CE1	TYR	D	95	61.710	57.915	174.281	1.00	29.90
ATOM	5948	CE2	TYR	D	95	59.410	58.038	174.955	1.00	30.26
ATOM	5949	CZ	TYR	D	95	60.674	58.605	174.898	1.00	33.82
ATOM	5950	OH	TYR	D	95	60.916	59.861	175.450	1.00	33.38

ATOM	5951	N	ASN	D	96	59.376	51.553	174.626	1.00	32.26
ATOM	5952	CA	ASN	D	96	58.847	50.214	174.418	1.00	31.07
ATOM	5953	C	ASN	D	96	57.454	50.055	175.017	1.00	30.70
ATOM	5954	O	ASN	D	96	57.231	49.196	175.872	1.00	30.94
ATOM	5955	CB	ASN	D	96	59.791	49.196	175.052	1.00	34.95
ATOM	5956	CG	ASN	D	96	60.115	49.517	176.516	1.00	41.17
ATOM	5957	OD1	ASN	D	96	61.017	48.917	177.102	1.00	48.26
ATOM	5958	ND2	ASN	D	96	59.383	50.456	177.106	1.00	46.84
ATOM	5959	N	SER	D	97	56.521	50.879	174.563	1.00	28.66
ATOM	5960	CA	SER	D	97	55.158	50.827	175.058	1.00	29.23
ATOM	5961	C	SER	D	97	54.274	51.730	174.207	1.00	31.17
ATOM	5962	O	SER	D	97	54.764	52.681	173.614	1.00	33.69
ATOM	5963	CB	SER	D	97	55.138	51.284	176.511	1.00	24.41
ATOM	5964	OG	SER	D	97	53.852	51.724	176.889	1.00	26.66
ATOM	5965	N	ARG	D	98	52.982	51.435	174.125	1.00	33.96
ATOM	5966	CA	ARG	D	98	52.091	52.280	173.340	1.00	37.62
ATOM	5967	C	ARG	D	98	51.593	53.436	174.175	1.00	39.91
ATOM	5968	O	ARG	D	98	50.940	54.331	173.650	1.00	43.45
ATOM	5969	CB	ARG	D	98	50.884	51.501	172.836	1.00	40.02
ATOM	5970	CG	ARG	D	98	51.233	50.348	171.931	1.00	49.91
ATOM	5971	CD	ARG	D	98	50.000	49.804	171.230	1.00	55.78
ATOM	5972	NE	ARG	D	98	50.372	48.823	170.214	1.00	64.16
ATOM	5973	CZ	ARG	D	98	50.877	47.623	170.483	1.00	68.74
ATOM	5974	NH1	ARG	D	98	51.070	47.241	171.743	1.00	70.31
ATOM	5975	NH2	ARG	D	98	51.197	46.806	169.487	1.00	72.14
ATOM	5976	N	THR	D	99	51.889	53.406	175.475	1.00	39.58
ATOM	5977	CA	THR	D	99	51.460	54.459	176.386	1.00	39.26
ATOM	5978	C	THR	D	99	52.390	55.648	176.240	1.00	41.04
ATOM	5979	O	THR	D	99	53.608	55.487	176.239	1.00	41.76
ATOM	5980	CB	THR	D	99	51.510	53.995	177.844	1.00	39.64
ATOM	5981	OG1	THR	D	99	50.694	52.828	178.015	1.00	36.50
ATOM	5982	CG2	THR	D	99	51.005	55.101	178.754	1.00	39.70
ATOM	5983	N	ASP	D	100	51.826	56.844	176.117	1.00	41.49
ATOM	5984	CA	ASP	D	100	52.664	58.027	175.961	1.00	40.38
ATOM	5985	C	ASP	D	100	53.509	58.267	177.204	1.00	39.38
ATOM	5986	O	ASP	D	100	52.991	58.516	178.288	1.00	39.79
ATOM	5987	CB	ASP	D	100	51.811	59.271	175.700	1.00	42.73
ATOM	5988	CG	ASP	D	100	51.073	59.217	174.376	1.00	45.53
ATOM	5989	OD1	ASP	D	100	51.725	59.054	173.323	1.00	44.76
ATOM	5990	OD2	ASP	D	100	49.830	59.350	174.388	1.00	51.93
ATOM	5991	N	LYS	D	101	54.816	58.178	177.039	1.00	39.87
ATOM	5992	CA	LYS	D	101	55.752	58.422	178.126	1.00	39.41
ATOM	5993	C	LYS	D	101	56.404	59.761	177.752	1.00	39.42
ATOM	5994	O	LYS	D	101	56.320	60.183	176.599	1.00	38.28
ATOM	5995	CB	LYS	D	101	56.781	57.286	178.180	1.00	39.89
ATOM	5996	CG	LYS	D	101	58.187	57.689	178.638	1.00	45.48
ATOM	5997	CD	LYS	D	101	59.217	56.557	178.435	1.00	40.86
ATOM	5998	CE	LYS	D	101	60.646	57.051	178.604	1.00	36.36
ATOM	5999	NZ	LYS	D	101	61.567	55.945	178.290	1.00	36.27
ATOM	6000	N	PRO	D	102	57.023	60.461	178.723	1.00	38.89
ATOM	6001	CA	PRO	D	102	57.669	61.749	178.447	1.00	38.63
ATOM	6002	C	PRO	D	102	58.962	61.692	177.628	1.00	37.49
ATOM	6003	O	PRO	D	102	59.547	60.634	177.423	1.00	39.20
ATOM	6004	CB	PRO	D	102	57.922	62.313	179.849	1.00	35.53
ATOM	6005	CG	PRO	D	102	56.826	61.769	180.620	1.00	37.68
ATOM	6006	CD	PRO	D	102	56.818	60.321	180.172	1.00	39.83
ATOM	6007	N	TRP	D	103	59.378	62.852	177.140	1.00	35.19
ATOM	6008	CA	TRP	D	103	60.621	62.984	176.406	1.00	33.57
ATOM	6009	C	TRP	D	103	61.396	63.889	177.366	1.00	34.50
ATOM	6010	O	TRP	D	103	61.204	65.101	177.395	1.00	34.78
ATOM	6011	CB	TRP	D	103	60.381	63.664	175.068	1.00	31.13
ATOM	6012	CG	TRP	D	103	61.584	63.674	174.211	1.00	25.61

ATOM	6013	CD1	TRP	D	103	62.478	62.666	174.054	1.00	25.54
ATOM	6014	CD2	TRP	D	103	62.053	64.759	173.411	1.00	21.73
ATOM	6015	NE1	TRP	D	103	63.486	63.054	173.209	1.00	24.50
ATOM	6016	CE2	TRP	D	103	63.250	64.338	172.802	1.00	17.15
ATOM	6017	CE3	TRP	D	103	61.581	66.049	173.158	1.00	18.40
ATOM	6018	CZ2	TRP	D	103	63.988	65.156	171.961	1.00	13.53
ATOM	6019	CZ3	TRP	D	103	62.318	66.863	172.321	1.00	21.85
ATOM	6020	CH2	TRP	D	103	63.515	66.410	171.731	1.00	17.52
ATOM	6021	N	PRO	D	104	62.262	63.284	178.187	1.00	33.78
ATOM	6022	CA	PRO	D	104	63.128	63.845	179.220	1.00	32.54
ATOM	6023	C	PRO	D	104	64.123	64.887	178.779	1.00	32.07
ATOM	6024	O	PRO	D	104	65.324	64.711	178.979	1.00	34.12
ATOM	6025	CB	PRO	D	104	63.828	62.617	179.749	1.00	33.11
ATOM	6026	CG	PRO	D	104	64.110	61.904	178.506	1.00	31.59
ATOM	6027	CD	PRO	D	104	62.748	61.941	177.833	1.00	34.30
ATOM	6028	N	VAL	D	105	63.636	65.963	178.179	1.00	30.64
ATOM	6029	CA	VAL	D	105	64.517	67.032	177.735	1.00	28.66
ATOM	6030	C	VAL	D	105	64.206	68.255	178.569	1.00	30.55
ATOM	6031	O	VAL	D	105	63.033	68.619	178.753	1.00	31.08
ATOM	6032	CB	VAL	D	105	64.310	67.375	176.243	1.00	25.03
ATOM	6033	CG1	VAL	D	105	65.233	68.489	175.845	1.00	23.37
ATOM	6034	CG2	VAL	D	105	64.594	66.163	175.386	1.00	27.63
ATOM	6035	N	ALA	D	106	65.253	68.873	179.102	1.00	30.55
ATOM	6036	CA	ALA	D	106	65.071	70.064	179.911	1.00	32.35
ATOM	6037	C	ALA	D	106	66.219	71.029	179.711	1.00	34.64
ATOM	6038	O	ALA	D	106	67.387	70.651	179.714	1.00	37.45
ATOM	6039	CB	ALA	D	106	64.939	69.700	181.380	1.00	29.73
ATOM	6040	N	LEU	D	107	65.859	72.289	179.524	1.00	37.53
ATOM	6041	CA	LEU	D	107	66.815	73.365	179.334	1.00	38.88
ATOM	6042	C	LEU	D	107	67.137	74.049	180.669	1.00	40.06
ATOM	6043	O	LEU	D	107	66.240	74.324	181.479	1.00	38.60
ATOM	6044	CB	LEU	D	107	66.237	74.398	178.359	1.00	36.19
ATOM	6045	CG	LEU	D	107	66.575	74.343	176.866	1.00	34.09
ATOM	6046	CD1	LEU	D	107	67.063	72.969	176.432	1.00	32.93
ATOM	6047	CD2	LEU	D	107	65.336	74.777	176.109	1.00	26.86
ATOM	6048	N	TYR	D	108	68.424	74.307	180.887	1.00	40.70
ATOM	6049	CA	TYR	D	108	68.910	74.986	182.083	1.00	39.97
ATOM	6050	C	TYR	D	108	69.617	76.217	181.588	1.00	40.13
ATOM	6051	O	TYR	D	108	70.792	76.156	181.220	1.00	43.83
ATOM	6052	CB	TYR	D	108	69.875	74.093	182.840	1.00	37.24
ATOM	6053	CG	TYR	D	108	69.146	72.992	183.524	1.00	36.93
ATOM	6054	CD1	TYR	D	108	68.226	73.279	184.516	1.00	36.06
ATOM	6055	CD2	TYR	D	108	69.328	71.673	183.152	1.00	43.41
ATOM	6056	CE1	TYR	D	108	67.503	72.292	185.123	1.00	40.95
ATOM	6057	CE2	TYR	D	108	68.604	70.664	183.756	1.00	48.07
ATOM	6058	CZ	TYR	D	108	67.688	70.984	184.745	1.00	46.27
ATOM	6059	OH	TYR	D	108	66.949	69.991	185.355	1.00	55.71
ATOM	6060	N	LEU	D	109	68.889	77.329	181.570	1.00	38.32
ATOM	6061	CA	LEU	D	109	69.422	78.586	181.063	1.00	37.33
ATOM	6062	C	LEU	D	109	69.800	79.574	182.159	1.00	37.02
ATOM	6063	O	LEU	D	109	69.052	79.762	183.117	1.00	37.43
ATOM	6064	CB	LEU	D	109	68.400	79.218	180.110	1.00	32.80
ATOM	6065	CG	LEU	D	109	67.940	78.302	178.984	1.00	27.70
ATOM	6066	CD1	LEU	D	109	67.004	79.039	178.080	1.00	29.46
ATOM	6067	CD2	LEU	D	109	69.122	77.828	178.213	1.00	20.50
ATOM	6068	N	THR	D	110	70.959	80.210	182.007	1.00	36.06
ATOM	6069	CA	THR	D	110	71.427	81.176	182.998	1.00	35.57
ATOM	6070	C	THR	D	110	71.730	82.547	182.394	1.00	34.62
ATOM	6071	O	THR	D	110	72.595	82.689	181.528	1.00	30.47
ATOM	6072	CB	THR	D	110	72.702	80.681	183.703	1.00	36.43
ATOM	6073	OG1	THR	D	110	72.590	79.276	183.962	1.00	39.45
ATOM	6074	CG2	THR	D	110	72.902	81.421	185.013	1.00	32.02

ATOM	6075	N	PRO	D	111	71.018	83.581	182.860	1.00	34.61
ATOM	6076	CA	PRO	D	111	71.222	84.937	182.360	1.00	36.45
ATOM	6077	C	PRO	D	111	72.651	85.334	182.609	1.00	39.29
ATOM	6078	O	PRO	D	111	73.217	85.003	183.652	1.00	42.20
ATOM	6079	CB	PRO	D	111	70.262	85.766	183.198	1.00	35.66
ATOM	6080	CG	PRO	D	111	69.173	84.801	183.513	1.00	38.59
ATOM	6081	CD	PRO	D	111	69.945	83.555	183.865	1.00	35.39
ATOM	6082	N	VAL	D	112	73.244	86.035	181.653	1.00	41.57
ATOM	6083	CA	VAL	D	112	74.618	86.469	181.815	1.00	42.07
ATOM	6084	C	VAL	D	112	74.683	87.836	182.458	1.00	44.60
ATOM	6085	O	VAL	D	112	73.679	88.553	182.587	1.00	42.58
ATOM	6086	CB	VAL	D	112	75.366	86.569	180.484	1.00	39.32
ATOM	6087	CG1	VAL	D	112	75.641	85.205	179.932	1.00	35.34
ATOM	6088	CG2	VAL	D	112	74.558	87.399	179.519	1.00	42.27
ATOM	6089	N	SER	D	113	75.902	88.167	182.864	1.00	46.39
ATOM	6090	CA	SER	D	113	76.241	89.432	183.477	1.00	45.75
ATOM	6091	C	SER	D	113	75.593	90.543	182.645	1.00	46.43
ATOM	6092	O	SER	D	113	74.875	91.400	183.166	1.00	45.64
ATOM	6093	CB	SER	D	113	77.760	89.551	183.457	1.00	42.32
ATOM	6094	OG	SER	D	113	78.218	90.626	184.232	1.00	49.94
ATOM	6095	N	SER	D	114	75.827	90.485	181.337	1.00	47.18
ATOM	6096	CA	SER	D	114	75.300	91.462	180.393	1.00	48.77
ATOM	6097	C	SER	D	114	73.822	91.322	179.991	1.00	50.67
ATOM	6098	O	SER	D	114	73.296	92.174	179.273	1.00	53.09
ATOM	6099	CB	SER	D	114	76.164	91.457	179.124	1.00	49.64
ATOM	6100	OG	SER	D	114	76.204	90.178	178.507	1.00	45.90
ATOM	6101	N	ALA	D	115	73.147	90.263	180.426	1.00	50.27
ATOM	6102	CA	ALA	D	115	71.742	90.094	180.066	1.00	49.38
ATOM	6103	C	ALA	D	115	70.982	91.407	180.269	1.00	48.81
ATOM	6104	O	ALA	D	115	71.106	92.042	181.327	1.00	47.33
ATOM	6105	CB	ALA	D	115	71.115	88.992	180.905	1.00	51.05
ATOM	6106	N	GLY	D	116	70.206	91.806	179.256	1.00	46.22
ATOM	6107	CA	GLY	D	116	69.433	93.043	179.325	1.00	43.00
ATOM	6108	C	GLY	D	116	68.377	93.137	180.424	1.00	41.94
ATOM	6109	O	GLY	D	116	68.635	92.861	181.605	1.00	40.38
ATOM	6110	N	GLY	D	117	67.182	93.566	180.032	1.00	40.58
ATOM	6111	CA	GLY	D	117	66.071	93.675	180.970	1.00	37.94
ATOM	6112	C	GLY	D	117	65.059	92.592	180.620	1.00	35.32
ATOM	6113	O	GLY	D	117	64.578	91.854	181.484	1.00	34.11
ATOM	6114	N	VAL	D	118	64.742	92.523	179.329	1.00	32.41
ATOM	6115	CA	VAL	D	118	63.847	91.523	178.774	1.00	28.12
ATOM	6116	C	VAL	D	118	64.777	90.588	178.031	1.00	27.53
ATOM	6117	O	VAL	D	118	65.019	90.780	176.849	1.00	29.51
ATOM	6118	CB	VAL	D	118	62.883	92.137	177.773	1.00	22.31
ATOM	6119	CG1	VAL	D	118	62.097	91.044	177.069	1.00	25.02
ATOM	6120	CG2	VAL	D	118	61.960	93.074	178.484	1.00	14.68
ATOM	6121	N	ALA	D	119	65.318	89.594	178.726	1.00	29.01
ATOM	6122	CA	ALA	D	119	66.252	88.654	178.100	1.00	30.61
ATOM	6123	C	ALA	D	119	65.557	87.718	177.141	1.00	29.32
ATOM	6124	O	ALA	D	119	66.198	87.041	176.341	1.00	27.93
ATOM	6125	CB	ALA	D	119	66.991	87.838	179.159	1.00	34.87
ATOM	6126	N	ILE	D	120	64.239	87.670	177.239	1.00	26.08
ATOM	6127	CA	ILE	D	120	63.469	86.828	176.358	1.00	25.15
ATOM	6128	C	ILE	D	120	62.171	87.535	176.069	1.00	26.82
ATOM	6129	O	ILE	D	120	61.421	87.844	176.983	1.00	29.98
ATOM	6130	CB	ILE	D	120	63.211	85.462	177.002	1.00	23.10
ATOM	6131	CG1	ILE	D	120	64.468	84.601	176.867	1.00	21.82
ATOM	6132	CG2	ILE	D	120	62.018	84.794	176.360	1.00	24.09
ATOM	6133	CD1	ILE	D	120	64.259	83.138	177.176	1.00	26.90
ATOM	6134	N	LYS	D	121	61.907	87.823	174.802	1.00	28.42
ATOM	6135	CA	LYS	D	121	60.664	88.505	174.473	1.00	27.70
ATOM	6136	C	LYS	D	121	59.542	87.501	174.381	1.00	25.44

ATOM	6137	O	LYS	D	121	59.738	86.366	173.951	1.00	23.44
ATOM	6138	CB	LYS	D	121	60.780	89.268	173.153	1.00	32.17
ATOM	6139	CG	LYS	D	121	61.010	90.766	173.317	1.00	43.13
ATOM	6140	CD	LYS	D	121	62.335	91.238	172.696	1.00	46.65
ATOM	6141	CE	LYS	D	121	63.083	92.170	173.660	1.00	49.98
ATOM	6142	NZ	LYS	D	121	62.198	93.239	174.241	1.00	48.53
ATOM	6143	N	ALA	D	122	58.366	87.930	174.809	1.00	24.90
ATOM	6144	CA	ALA	D	122	57.181	87.098	174.774	1.00	25.59
ATOM	6145	C	ALA	D	122	56.789	86.759	173.312	1.00	26.89
ATOM	6146	O	ALA	D	122	56.758	87.621	172.421	1.00	29.17
ATOM	6147	CB	ALA	D	122	56.039	87.819	175.502	1.00	21.37
ATOM	6148	N	GLY	D	123	56.509	85.491	173.061	1.00	25.83
ATOM	6149	CA	GLY	D	123	56.131	85.098	171.725	1.00	27.03
ATOM	6150	C	GLY	D	123	57.311	84.737	170.838	1.00	28.59
ATOM	6151	O	GLY	D	123	57.108	84.239	169.715	1.00	31.64
ATOM	6152	N	SER	D	124	58.535	84.950	171.326	1.00	22.81
ATOM	6153	CA	SER	D	124	59.718	84.649	170.524	1.00	20.76
ATOM	6154	C	SER	D	124	60.186	83.196	170.518	1.00	22.62
ATOM	6155	O	SER	D	124	59.930	82.426	171.441	1.00	27.11
ATOM	6156	CB	SER	D	124	60.882	85.542	170.935	1.00	17.22
ATOM	6157	OG	SER	D	124	61.292	85.309	172.263	1.00	24.41
ATOM	6158	N	LEU	D	125	60.875	82.815	169.457	1.00	21.46
ATOM	6159	CA	LEU	D	125	61.366	81.464	169.361	1.00	21.27
ATOM	6160	C	LEU	D	125	62.545	81.393	170.314	1.00	23.82
ATOM	6161	O	LEU	D	125	63.506	82.152	170.201	1.00	24.70
ATOM	6162	CB	LEU	D	125	61.803	81.172	167.925	1.00	20.57
ATOM	6163	CG	LEU	D	125	62.265	79.765	167.548	1.00	17.61
ATOM	6164	CD1	LEU	D	125	61.067	78.842	167.462	1.00	10.54
ATOM	6165	CD2	LEU	D	125	63.001	79.818	166.230	1.00	12.26
ATOM	6166	N	ILE	D	126	62.443	80.481	171.268	1.00	26.07
ATOM	6167	CA	ILE	D	126	63.463	80.273	172.287	1.00	27.19
ATOM	6168	C	ILE	D	126	64.453	79.207	171.872	1.00	28.23
ATOM	6169	O	ILE	D	126	65.646	79.322	172.108	1.00	28.65
ATOM	6170	CB	ILE	D	126	62.811	79.816	173.599	1.00	27.55
ATOM	6171	CG1	ILE	D	126	61.855	80.891	174.107	1.00	33.64
ATOM	6172	CG2	ILE	D	126	63.846	79.530	174.624	1.00	30.64
ATOM	6173	CD1	ILE	D	126	62.512	82.224	174.368	1.00	35.31
ATOM	6174	N	ALA	D	127	63.941	78.157	171.247	1.00	30.99
ATOM	6175	CA	ALA	D	127	64.776	77.041	170.835	1.00	27.22
ATOM	6176	C	ALA	D	127	64.061	76.078	169.872	1.00	25.41
ATOM	6177	O	ALA	D	127	62.827	76.054	169.765	1.00	23.25
ATOM	6178	CB	ALA	D	127	65.228	76.278	172.089	1.00	23.84
ATOM	6179	N	VAL	D	128	64.856	75.285	169.166	1.00	19.81
ATOM	6180	CA	VAL	D	128	64.304	74.299	168.268	1.00	18.02
ATOM	6181	C	VAL	D	128	65.056	73.029	168.599	1.00	19.15
ATOM	6182	O	VAL	D	128	66.261	72.978	168.412	1.00	20.82
ATOM	6183	CB	VAL	D	128	64.542	74.642	166.779	1.00	15.12
ATOM	6184	CG1	VAL	D	128	64.043	73.511	165.921	1.00	17.44
ATOM	6185	CG2	VAL	D	128	63.813	75.904	166.388	1.00	13.99
ATOM	6186	N	LEU	D	129	64.349	72.016	169.098	1.00	17.93
ATOM	6187	CA	LEU	D	129	64.959	70.738	169.460	1.00	18.70
ATOM	6188	C	LEU	D	129	64.539	69.600	168.536	1.00	17.95
ATOM	6189	O	LEU	D	129	63.346	69.365	168.360	1.00	19.65
ATOM	6190	CB	LEU	D	129	64.549	70.365	170.875	1.00	24.03
ATOM	6191	CG	LEU	D	129	64.799	71.387	171.971	1.00	24.65
ATOM	6192	CD1	LEU	D	129	64.225	70.845	173.244	1.00	30.01
ATOM	6193	CD2	LEU	D	129	66.279	71.639	172.137	1.00	28.94
ATOM	6194	N	ILE	D	130	65.502	68.875	167.973	1.00	15.96
ATOM	6195	CA	ILE	D	130	65.180	67.758	167.071	1.00	15.18
ATOM	6196	C	ILE	D	130	65.295	66.378	167.731	1.00	18.52
ATOM	6197	O	ILE	D	130	66.379	65.941	168.144	1.00	19.16
ATOM	6198	CB	ILE	D	130	66.066	67.752	165.801	1.00	9.80

ATOM	6199	CG1	ILE	D	130	65.941	69.072	165.055	1.00	9.22
ATOM	6200	CG2	ILE	D	130	65.628	66.670	164.881	1.00	4.82
ATOM	6201	CD1	ILE	D	130	66.916	69.187	163.905	1.00	9.37
ATOM	6202	N	LEU	D	131	64.149	65.710	167.814	1.00	21.07
ATOM	6203	CA	LEU	D	131	64.008	64.385	168.396	1.00	22.17
ATOM	6204	C	LEU	D	131	64.202	63.375	167.290	1.00	24.38
ATOM	6205	O	LEU	D	131	63.478	63.412	166.308	1.00	26.46
ATOM	6206	CB	LEU	D	131	62.607	64.237	168.981	1.00	20.69
ATOM	6207	CG	LEU	D	131	62.215	62.898	169.607	1.00	22.31
ATOM	6208	CD1	LEU	D	131	60.964	63.076	170.480	1.00	13.80
ATOM	6209	CD2	LEU	D	131	62.001	61.873	168.500	1.00	19.73
ATOM	6210	N	ARG	D	132	65.168	62.475	167.450	1.00	27.28
ATOM	6211	CA	ARG	D	132	65.448	61.467	166.436	1.00	29.06
ATOM	6212	C	ARG	D	132	64.911	60.095	166.833	1.00	31.43
ATOM	6213	O	ARG	D	132	65.001	59.693	167.990	1.00	31.72
ATOM	6214	CB	ARG	D	132	66.945	61.379	166.192	1.00	30.50
ATOM	6215	CG	ARG	D	132	67.308	60.610	164.935	1.00	34.03
ATOM	6216	CD	ARG	D	132	68.777	60.800	164.587	1.00	29.24
ATOM	6217	NE	ARG	D	132	69.021	60.416	163.209	1.00	32.00
ATOM	6218	CZ	ARG	D	132	69.990	60.922	162.460	1.00	35.40
ATOM	6219	NH1	ARG	D	132	70.802	61.835	162.978	1.00	34.55
ATOM	6220	NH2	ARG	D	132	70.130	60.532	161.192	1.00	33.44
ATOM	6221	N	ASN	D	133	64.369	59.374	165.855	1.00	32.46
ATOM	6222	CA	ASN	D	133	63.784	58.064	166.099	1.00	31.62
ATOM	6223	C	ASN	D	133	64.205	56.996	165.113	1.00	31.58
ATOM	6224	O	ASN	D	133	64.203	57.191	163.904	1.00	31.64
ATOM	6225	CB	ASN	D	133	62.248	58.189	166.125	1.00	33.33
ATOM	6226	CG	ASN	D	133	61.528	56.909	165.709	1.00	32.50
ATOM	6227	OD1	ASN	D	133	61.410	56.606	164.523	1.00	31.59
ATOM	6228	ND2	ASN	D	133	61.040	56.161	166.685	1.00	29.32
ATOM	6229	N	THR	D	134	64.568	55.852	165.659	1.00	31.25
ATOM	6230	CA	THR	D	134	64.982	54.720	164.860	1.00	33.84
ATOM	6231	C	THR	D	134	64.411	53.511	165.568	1.00	36.09
ATOM	6232	O	THR	D	134	63.739	53.664	166.584	1.00	38.67
ATOM	6233	CB	THR	D	134	66.498	54.608	164.817	1.00	31.80
ATOM	6234	OG1	THR	D	134	67.016	54.899	166.117	1.00	31.48
ATOM	6235	CG2	THR	D	134	67.075	55.561	163.801	1.00	23.98
ATOM	6236	N	ASN	D	135	64.665	52.316	165.046	1.00	36.94
ATOM	6237	CA	ASN	D	135	64.133	51.118	165.679	1.00	39.12
ATOM	6238	C	ASN	D	135	64.961	49.906	165.335	1.00	41.17
ATOM	6239	O	ASN	D	135	65.721	49.921	164.363	1.00	43.64
ATOM	6240	CB	ASN	D	135	62.704	50.874	165.230	1.00	37.22
ATOM	6241	CG	ASN	D	135	62.605	50.683	163.748	1.00	35.96
ATOM	6242	OD1	ASN	D	135	62.945	51.571	162.977	1.00	37.38
ATOM	6243	ND2	ASN	D	135	62.151	49.517	163.337	1.00	39.19
ATOM	6244	N	ASN	D	136	64.795	48.848	166.124	1.00	40.21
ATOM	6245	CA	ASN	D	136	65.546	47.627	165.908	1.00	40.14
ATOM	6246	C	ASN	D	136	64.924	46.728	164.857	1.00	41.17
ATOM	6247	O	ASN	D	136	65.434	45.644	164.596	1.00	41.32
ATOM	6248	CB	ASN	D	136	65.670	46.873	167.223	1.00	39.03
ATOM	6249	CG	ASN	D	136	64.342	46.363	167.726	1.00	39.12
ATOM	6250	OD1	ASN	D	136	64.200	46.031	168.908	1.00	36.19
ATOM	6251	ND2	ASN	D	136	63.361	46.270	166.829	1.00	36.23
ATOM	6252	N	TYR	D	137	63.823	47.176	164.253	1.00	44.45
ATOM	6253	CA	TYR	D	137	63.143	46.374	163.239	1.00	44.95
ATOM	6254	C	TYR	D	137	63.501	46.681	161.810	1.00	43.78
ATOM	6255	O	TYR	D	137	63.625	45.757	161.017	1.00	45.93
ATOM	6256	CB	TYR	D	137	61.623	46.469	163.332	1.00	48.93
ATOM	6257	CG	TYR	D	137	60.972	45.723	162.182	1.00	55.92
ATOM	6258	CD1	TYR	D	137	61.114	44.338	162.060	1.00	58.22
ATOM	6259	CD2	TYR	D	137	60.268	46.401	161.181	1.00	57.33
ATOM	6260	CE1	TYR	D	137	60.575	43.648	160.973	1.00	59.88

ATOM	6261	CE2	TYR	D	137	59.724	45.721	160.088	1.00	57.32
ATOM	6262	CZ	TYR	D	137	59.882	44.343	159.991	1.00	60.11
ATOM	6263	OH	TYR	D	137	59.360	43.653	158.917	1.00	56.87
ATOM	6264	N	ASN	D	138	63.630	47.957	161.464	1.00	41.38
ATOM	6265	CA	ASN	D	138	63.969	48.313	160.095	1.00	42.11
ATOM	6266	C	ASN	D	138	64.956	49.458	160.047	1.00	44.70
ATOM	6267	O	ASN	D	138	65.488	49.858	161.080	1.00	50.16
ATOM	6268	CB	ASN	D	138	62.714	48.674	159.312	1.00	40.01
ATOM	6269	CG	ASN	D	138	62.077	49.945	159.795	1.00	38.21
ATOM	6270	OD1	ASN	D	138	60.942	50.246	159.454	1.00	36.05
ATOM	6271	ND2	ASN	D	138	62.807	50.709	160.589	1.00	38.84
ATOM	6272	N	SER	D	139	65.180	49.999	158.854	1.00	44.77
ATOM	6273	CA	SER	D	139	66.138	51.087	158.666	1.00	44.78
ATOM	6274	C	SER	D	139	65.527	52.490	158.574	1.00	44.77
ATOM	6275	O	SER	D	139	66.083	53.383	157.922	1.00	43.44
ATOM	6276	CB	SER	D	139	66.952	50.797	157.419	1.00	43.56
ATOM	6277	OG	SER	D	139	66.100	50.237	156.440	1.00	46.36
ATOM	6278	N	ASP	D	140	64.388	52.681	159.228	1.00	43.35
ATOM	6279	CA	ASP	D	140	63.723	53.972	159.219	1.00	42.84
ATOM	6280	C	ASP	D	140	64.441	54.931	160.162	1.00	42.88
ATOM	6281	O	ASP	D	140	64.876	54.543	161.249	1.00	43.96
ATOM	6282	CB	ASP	D	140	62.267	53.835	159.674	1.00	42.88
ATOM	6283	CG	ASP	D	140	61.406	53.064	158.693	1.00	43.92
ATOM	6284	OD1	ASP	D	140	61.874	52.769	157.572	1.00	42.66
ATOM	6285	OD2	ASP	D	140	60.247	52.761	159.058	1.00	44.75
ATOM	6286	N	ASP	D	141	64.555	56.182	159.733	1.00	41.79
ATOM	6287	CA	ASP	D	141	65.184	57.229	160.517	1.00	39.19
ATOM	6288	C	ASP	D	141	64.356	58.497	160.324	1.00	39.11
ATOM	6289	O	ASP	D	141	64.490	59.175	159.304	1.00	40.69
ATOM	6290	CB	ASP	D	141	66.605	57.448	160.032	1.00	37.64
ATOM	6291	CG	ASP	D	141	67.257	58.626	160.684	1.00	43.30
ATOM	6292	OD1	ASP	D	141	67.035	59.763	160.222	1.00	51.89
ATOM	6293	OD2	ASP	D	141	67.984	58.420	161.671	1.00	47.55
ATOM	6294	N	PHE	D	142	63.498	58.805	161.299	1.00	36.56
ATOM	6295	CA	PHE	D	142	62.620	59.973	161.231	1.00	36.40
ATOM	6296	C	PHE	D	142	62.962	61.042	162.248	1.00	36.41
ATOM	6297	O	PHE	D	142	63.400	60.729	163.360	1.00	36.83
ATOM	6298	CB	PHE	D	142	61.176	59.550	161.452	1.00	38.69
ATOM	6299	CG	PHE	D	142	60.709	58.503	160.504	1.00	36.86
ATOM	6300	CD1	PHE	D	142	60.799	58.701	159.143	1.00	35.18
ATOM	6301	CD2	PHE	D	142	60.171	57.316	160.977	1.00	37.50
ATOM	6302	CE1	PHE	D	142	60.363	57.737	158.274	1.00	36.89
ATOM	6303	CE2	PHE	D	142	59.732	56.346	160.111	1.00	31.73
ATOM	6304	CZ	PHE	D	142	59.827	56.557	158.758	1.00	36.09
ATOM	6305	N	GLN	D	143	62.724	62.301	161.873	1.00	32.44
ATOM	6306	CA	GLN	D	143	63.029	63.421	162.748	1.00	28.37
ATOM	6307	C	GLN	D	143	61.814	64.224	163.153	1.00	28.59
ATOM	6308	O	GLN	D	143	61.023	64.667	162.319	1.00	27.48
ATOM	6309	CB	GLN	D	143	64.032	64.352	162.089	1.00	26.34
ATOM	6310	CG	GLN	D	143	65.356	63.713	161.769	1.00	34.13
ATOM	6311	CD	GLN	D	143	66.475	64.734	161.785	1.00	44.24
ATOM	6312	OE1	GLN	D	143	66.427	65.730	161.062	1.00	48.12
ATOM	6313	NE2	GLN	D	143	67.490	64.502	162.624	1.00	47.17
ATOM	6314	N	PHE	D	144	61.677	64.407	164.456	1.00	28.07
ATOM	6315	CA	PHE	D	144	60.581	65.170	165.010	1.00	26.39
ATOM	6316	C	PHE	D	144	61.159	66.505	165.418	1.00	26.90
ATOM	6317	O	PHE	D	144	62.014	66.584	166.288	1.00	30.24
ATOM	6318	CB	PHE	D	144	59.988	64.431	166.207	1.00	23.01
ATOM	6319	CG	PHE	D	144	59.218	63.204	165.821	1.00	22.28
ATOM	6320	CD1	PHE	D	144	59.871	62.098	165.267	1.00	16.49
ATOM	6321	CD2	PHE	D	144	57.825	63.169	165.962	1.00	19.67
ATOM	6322	CE1	PHE	D	144	59.145	60.974	164.858	1.00	15.84

ATOM	6323	CE2	PHE	D	144	57.093	62.051	165.558	1.00	17.21
ATOM	6324	CZ	PHE	D	144	57.753	60.952	165.004	1.00	17.62
ATOM	6325	N	VAL	D	145	60.696	67.560	164.772	1.00	25.53
ATOM	6326	CA	VAL	D	145	61.194	68.885	165.055	1.00	22.04
ATOM	6327	C	VAL	D	145	60.309	69.748	165.968	1.00	22.69
ATOM	6328	O	VAL	D	145	59.247	70.236	165.564	1.00	22.76
ATOM	6329	CB	VAL	D	145	61.465	69.597	163.737	1.00	20.20
ATOM	6330	CG1	VAL	D	145	61.696	71.073	163.972	1.00	23.61
ATOM	6331	CG2	VAL	D	145	62.681	68.979	163.084	1.00	15.21
ATOM	6332	N	TRP	D	146	60.771	69.944	167.204	1.00	20.01
ATOM	6333	CA	TRP	D	146	60.042	70.748	168.179	1.00	17.10
ATOM	6334	C	TRP	D	146	60.537	72.182	168.195	1.00	17.31
ATOM	6335	O	TRP	D	146	61.728	72.436	168.341	1.00	18.79
ATOM	6336	CB	TRP	D	146	60.190	70.151	169.578	1.00	14.24
ATOM	6337	CG	TRP	D	146	59.927	68.702	169.594	1.00	11.33
ATOM	6338	CD1	TRP	D	146	60.843	67.702	169.459	1.00	10.91
ATOM	6339	CD2	TRP	D	146	58.648	68.082	169.567	1.00	4.06
ATOM	6340	NE1	TRP	D	146	60.210	66.493	169.337	1.00	6.84
ATOM	6341	CE2	TRP	D	146	58.859	66.699	169.404	1.00	5.42
ATOM	6342	CE3	TRP	D	146	57.343	68.562	169.662	1.00	6.11
ATOM	6343	CZ2	TRP	D	146	57.814	65.791	169.326	1.00	4.70
ATOM	6344	CZ3	TRP	D	146	56.296	67.662	169.582	1.00	10.02
ATOM	6345	CH2	TRP	D	146	56.541	66.286	169.419	1.00	11.80
ATOM	6346	N	ASN	D	147	59.607	73.113	168.040	1.00	15.86
ATOM	6347	CA	ASN	D	147	59.914	74.533	168.055	1.00	18.62
ATOM	6348	C	ASN	D	147	59.425	75.134	169.374	1.00	21.65
ATOM	6349	O	ASN	D	147	58.225	75.205	169.627	1.00	22.62
ATOM	6350	CB	ASN	D	147	59.231	75.252	166.881	1.00	16.25
ATOM	6351	CG	ASN	D	147	59.603	74.669	165.536	1.00	13.94
ATOM	6352	OD1	ASN	D	147	60.764	74.458	165.226	1.00	5.81
ATOM	6353	ND2	ASN	D	147	58.600	74.424	164.720	1.00	21.51
ATOM	6354	N	ILE	D	148	60.355	75.575	170.213	1.00	23.55
ATOM	6355	CA	ILE	D	148	59.981	76.147	171.501	1.00	24.56
ATOM	6356	C	ILE	D	148	59.738	77.660	171.460	1.00	23.69
ATOM	6357	O	ILE	D	148	60.648	78.440	171.195	1.00	23.47
ATOM	6358	CB	ILE	D	148	61.056	75.835	172.580	1.00	26.69
ATOM	6359	CG1	ILE	D	148	60.941	74.378	173.043	1.00	25.85
ATOM	6360	CG2	ILE	D	148	60.863	76.748	173.797	1.00	33.20
ATOM	6361	CD1	ILE	D	148	61.078	73.347	171.958	1.00	27.99
ATOM	6362	N	TYR	D	149	58.499	78.059	171.726	1.00	20.00
ATOM	6363	CA	TYR	D	149	58.131	79.464	171.742	1.00	18.70
ATOM	6364	C	TYR	D	149	57.838	79.940	173.148	1.00	20.93
ATOM	6365	O	TYR	D	149	57.087	79.304	173.881	1.00	25.80
ATOM	6366	CB	TYR	D	149	56.889	79.717	170.891	1.00	15.57
ATOM	6367	CG	TYR	D	149	57.162	79.820	169.415	1.00	20.01
ATOM	6368	CD1	TYR	D	149	57.412	78.680	168.641	1.00	12.96
ATOM	6369	CD2	TYR	D	149	57.179	81.066	168.782	1.00	18.68
ATOM	6370	CE1	TYR	D	149	57.666	78.780	167.278	1.00	10.92
ATOM	6371	CE2	TYR	D	149	57.435	81.167	167.411	1.00	18.07
ATOM	6372	CZ	TYR	D	149	57.674	80.026	166.670	1.00	12.96
ATOM	6373	OH	TYR	D	149	57.909	80.155	165.320	1.00	21.22
ATOM	6374	N	ALA	D	150	58.407	81.073	173.526	1.00	20.65
ATOM	6375	CA	ALA	D	150	58.158	81.604	174.854	1.00	20.45
ATOM	6376	C	ALA	D	150	56.843	82.385	174.881	1.00	18.12
ATOM	6377	O	ALA	D	150	56.605	83.245	174.042	1.00	15.63
ATOM	6378	CB	ALA	D	150	59.315	82.496	175.271	1.00	26.54
ATOM	6379	N	ASN	D	151	55.999	82.084	175.857	1.00	15.75
ATOM	6380	CA	ASN	D	151	54.708	82.744	175.979	1.00	17.76
ATOM	6381	C	ASN	D	151	54.760	84.083	176.675	1.00	18.67
ATOM	6382	O	ASN	D	151	53.848	84.901	176.529	1.00	20.20
ATOM	6383	CB	ASN	D	151	53.707	81.860	176.736	1.00	20.85
ATOM	6384	CG	ASN	D	151	53.070	80.802	175.859	1.00	25.77

ATOM	6385	OD1	ASN	D	151	52.787	81.037	174.685	1.00	30.73
ATOM	6386	ND2	ASN	D	151	52.820	79.633	176.432	1.00	31.40
ATOM	6387	N	ASN	D	152	55.809	84.305	177.459	1.00	21.91
ATOM	6388	CA	ASN	D	152	55.960	85.563	178.195	1.00	20.14
ATOM	6389	C	ASN	D	152	57.393	86.064	178.163	1.00	22.06
ATOM	6390	O	ASN	D	152	58.316	85.362	177.727	1.00	17.50
ATOM	6391	CB	ASN	D	152	55.577	85.357	179.639	1.00	13.18
ATOM	6392	CG	ASN	D	152	56.280	84.175	180.235	1.00	20.44
ATOM	6393	OD1	ASN	D	152	55.976	83.029	179.887	1.00	26.09
ATOM	6394	ND2	ASN	D	152	57.248	84.428	181.122	1.00	21.67
ATOM	6395	N	ASP	D	153	57.564	87.290	178.645	1.00	25.68
ATOM	6396	CA	ASP	D	153	58.880	87.911	178.724	1.00	27.80
ATOM	6397	C	ASP	D	153	59.616	87.298	179.894	1.00	26.81
ATOM	6398	O	ASP	D	153	59.018	87.038	180.926	1.00	29.74
ATOM	6399	CB	ASP	D	153	58.769	89.419	179.002	1.00	29.13
ATOM	6400	CG	ASP	D	153	58.320	90.218	177.795	1.00	35.37
ATOM	6401	OD1	ASP	D	153	58.935	90.084	176.715	1.00	44.93
ATOM	6402	OD2	ASP	D	153	57.361	91.001	177.924	1.00	37.12
ATOM	6403	N	VAL	D	154	60.904	87.051	179.735	1.00	26.88
ATOM	6404	CA	VAL	D	154	61.708	86.556	180.841	1.00	28.47
ATOM	6405	C	VAL	D	154	62.670	87.693	181.182	1.00	29.01
ATOM	6406	O	VAL	D	154	63.648	87.955	180.470	1.00	27.25
ATOM	6407	CB	VAL	D	154	62.500	85.305	180.472	1.00	30.83
ATOM	6408	CG1	VAL	D	154	63.645	85.098	181.464	1.00	28.43
ATOM	6409	CG2	VAL	D	154	61.570	84.101	180.487	1.00	34.23
ATOM	6410	N	VAL	D	155	62.356	88.379	182.273	1.00	30.33
ATOM	6411	CA	VAL	D	155	63.135	89.512	182.760	1.00	30.70
ATOM	6412	C	VAL	D	155	64.273	89.142	183.723	1.00	32.34
ATOM	6413	O	VAL	D	155	64.096	88.351	184.655	1.00	30.56
ATOM	6414	CB	VAL	D	155	62.197	90.540	183.449	1.00	30.08
ATOM	6415	CG1	VAL	D	155	62.937	91.285	184.533	1.00	28.46
ATOM	6416	CG2	VAL	D	155	61.631	91.509	182.412	1.00	24.21
ATOM	6417	N	VAL	D	156	65.444	89.719	183.465	1.00	32.92
ATOM	6418	CA	VAL	D	156	66.633	89.521	184.291	1.00	34.34
ATOM	6419	C	VAL	D	156	66.909	90.870	184.945	1.00	33.85
ATOM	6420	O	VAL	D	156	67.487	91.753	184.321	1.00	38.23
ATOM	6421	CB	VAL	D	156	67.849	89.134	183.433	1.00	36.44
ATOM	6422	CG1	VAL	D	156	69.108	89.170	184.273	1.00	33.91
ATOM	6423	CG2	VAL	D	156	67.641	87.751	182.842	1.00	38.73
ATOM	6424	N	PRO	D	157	66.511	91.041	186.213	1.00	32.37
ATOM	6425	CA	PRO	D	157	66.702	92.291	186.951	1.00	30.53
ATOM	6426	C	PRO	D	157	68.118	92.822	186.871	1.00	29.86
ATOM	6427	O	PRO	D	157	69.081	92.061	186.902	1.00	29.49
ATOM	6428	CB	PRO	D	157	66.325	91.909	188.371	1.00	28.78
ATOM	6429	CG	PRO	D	157	65.379	90.796	188.175	1.00	31.79
ATOM	6430	CD	PRO	D	157	66.073	89.987	187.134	1.00	31.63
ATOM	6431	N	THR	D	158	68.245	94.136	186.761	1.00	28.28
ATOM	6432	CA	THR	D	158	69.566	94.731	186.691	1.00	28.46
ATOM	6433	C	THR	D	158	70.142	94.778	188.101	1.00	28.60
ATOM	6434	O	THR	D	158	69.462	95.197	189.047	1.00	28.36
ATOM	6435	CB	THR	D	158	69.508	96.148	186.065	1.00	26.48
ATOM	6436	OG1	THR	D	158	70.618	96.929	186.520	1.00	18.71
ATOM	6437	CG2	THR	D	158	68.239	96.825	186.428	1.00	24.22
ATOM	6438	N	GLY	D	159	71.391	94.333	188.229	1.00	27.42
ATOM	6439	CA	GLY	D	159	72.054	94.305	189.520	1.00	30.05
ATOM	6440	C	GLY	D	159	72.739	95.587	189.957	1.00	31.19
ATOM	6441	O	GLY	D	159	72.686	96.611	189.276	1.00	35.40
ATOM	6442	N	GLY	D	160	73.388	95.542	191.110	1.00	29.78
ATOM	6443	CA	GLY	D	160	74.063	96.731	191.583	1.00	29.21
ATOM	6444	C	GLY	D	160	75.413	96.815	190.931	1.00	27.58
ATOM	6445	O	GLY	D	160	75.914	95.803	190.444	1.00	27.72
ATOM	6446	N	CYS	D	161	76.012	97.997	190.924	1.00	27.53

ATOM	6447	CA	CYS	D	161	77.317	98.152	190.305	1.00	34.12
ATOM	6448	C	CYS	D	161	78.463	97.658	191.198	1.00	36.58
ATOM	6449	O	CYS	D	161	78.245	97.299	192.353	1.00	39.48
ATOM	6450	CB	CYS	D	161	77.502	99.606	189.932	1.00	35.16
ATOM	6451	SG	CYS	D	161	76.075	100.236	188.982	1.00	45.40
ATOM	6452	N	ASP	D	162	79.682	97.609	190.668	1.00	39.18
ATOM	6453	CA	ASP	D	162	80.802	97.145	191.478	1.00	40.88
ATOM	6454	C	ASP	D	162	81.810	98.239	191.752	1.00	42.24
ATOM	6455	O	ASP	D	162	82.339	98.859	190.832	1.00	42.12
ATOM	6456	CB	ASP	D	162	81.508	95.957	190.827	1.00	41.34
ATOM	6457	CG	ASP	D	162	82.694	95.474	191.644	1.00	45.81
ATOM	6458	OD1	ASP	D	162	82.625	95.544	192.893	1.00	47.73
ATOM	6459	OD2	ASP	D	162	83.691	95.014	191.050	1.00	47.56
ATOM	6460	N	VAL	D	163	82.068	98.464	193.033	1.00	44.46
ATOM	6461	CA	VAL	D	163	82.998	99.485	193.457	1.00	49.74
ATOM	6462	C	VAL	D	163	84.378	98.920	193.713	1.00	55.65
ATOM	6463	O	VAL	D	163	84.704	98.521	194.825	1.00	56.97
ATOM	6464	CB	VAL	D	163	82.499	100.184	194.723	1.00	46.74
ATOM	6465	CG1	VAL	D	163	83.549	101.163	195.224	1.00	47.61
ATOM	6466	CG2	VAL	D	163	81.199	100.914	194.422	1.00	43.25
ATOM	6467	N	SER	D	164	85.190	98.890	192.667	1.00	62.99
ATOM	6468	CA	SER	D	164	86.546	98.383	192.779	1.00	70.13
ATOM	6469	C	SER	D	164	87.387	99.445	193.471	1.00	73.20
ATOM	6470	O	SER	D	164	87.300	100.633	193.144	1.00	73.21
ATOM	6471	CB	SER	D	164	87.134	98.089	191.389	1.00	73.11
ATOM	6472	OG	SER	D	164	86.362	97.136	190.674	1.00	77.43
ATOM	6473	N	ALA	D	165	88.202	99.011	194.425	1.00	77.11
ATOM	6474	CA	ALA	D	165	89.064	99.922	195.158	1.00	79.13
ATOM	6475	C	ALA	D	165	90.216	99.174	195.829	1.00	80.90
ATOM	6476	O	ALA	D	165	90.093	97.995	196.176	1.00	81.64
ATOM	6477	CB	ALA	D	165	88.240	100.677	196.200	1.00	77.35
ATOM	6478	N	ARG	D	166	91.342	99.863	195.989	1.00	83.20
ATOM	6479	CA	ARG	D	166	92.514	99.289	196.650	1.00	84.19
ATOM	6480	C	ARG	D	166	92.334	99.553	198.156	1.00	83.24
ATOM	6481	O	ARG	D	166	92.143	100.696	198.593	1.00	81.97
ATOM	6482	CB	ARG	D	166	93.789	99.938	196.096	1.00	85.27
ATOM	6483	CG	ARG	D	166	93.855	99.853	194.571	1.00	85.67
ATOM	6484	CD	ARG	D	166	95.038	100.596	193.974	1.00	86.02
ATOM	6485	NE	ARG	D	166	94.883	100.725	192.524	1.00	88.57
ATOM	6486	CZ	ARG	D	166	95.601	101.539	191.753	1.00	88.58
ATOM	6487	NH1	ARG	D	166	96.545	102.311	192.282	1.00	86.46
ATOM	6488	NH2	ARG	D	166	95.357	101.597	190.452	1.00	87.36
ATOM	6489	N	ASP	D	167	92.377	98.475	198.932	1.00	81.72
ATOM	6490	CA	ASP	D	167	92.157	98.527	200.372	1.00	80.66
ATOM	6491	C	ASP	D	167	92.858	99.639	201.124	1.00	79.67
ATOM	6492	O	ASP	D	167	93.756	100.289	200.593	1.00	79.28
ATOM	6493	CB	ASP	D	167	92.530	97.193	201.009	1.00	80.74
ATOM	6494	CG	ASP	D	167	91.829	96.974	202.323	1.00	80.99
ATOM	6495	OD1	ASP	D	167	90.960	97.800	202.673	1.00	81.08
ATOM	6496	OD2	ASP	D	167	92.137	95.976	203.002	1.00	83.15
ATOM	6497	N	VAL	D	168	92.426	99.830	202.373	1.00	78.67
ATOM	6498	CA	VAL	D	168	92.956	100.845	203.291	1.00	77.48
ATOM	6499	C	VAL	D	168	94.093	101.688	202.702	1.00	75.88
ATOM	6500	O	VAL	D	168	95.222	101.217	202.548	1.00	75.13
ATOM	6501	CB	VAL	D	168	93.418	100.187	204.636	1.00	77.22
ATOM	6502	CG1	VAL	D	168	94.303	98.983	204.353	1.00	78.70
ATOM	6503	CG2	VAL	D	168	94.156	101.199	205.503	1.00	74.77
ATOM	6504	N	THR	D	169	93.779	102.940	202.374	1.00	73.25
ATOM	6505	CA	THR	D	169	94.756	103.848	201.789	1.00	70.74
ATOM	6506	C	THR	D	169	95.733	104.409	202.809	1.00	69.11
ATOM	6507	O	THR	D	169	95.344	104.831	203.906	1.00	67.19
ATOM	6508	CB	THR	D	169	94.067	105.015	201.084	1.00	71.17

ATOM	6509	OG1	THR	D	169	93.215	104.502	200.054	1.00	74.87
ATOM	6510	CG2	THR	D	169	95.094	105.944	200.464	1.00	69.19
ATOM	6511	N	VAL	D	170	97.007	104.416	202.426	1.00	66.85
ATOM	6512	CA	VAL	D	170	98.074	104.910	203.287	1.00	63.51
ATOM	6513	C	VAL	D	170	98.252	106.422	203.120	1.00	62.47
ATOM	6514	O	VAL	D	170	99.042	106.890	202.294	1.00	60.47
ATOM	6515	CB	VAL	D	170	99.402	104.195	202.975	1.00	61.01
ATOM	6516	CG1	VAL	D	170	100.268	104.172	204.210	1.00	59.41
ATOM	6517	CG2	VAL	D	170	99.131	102.779	202.485	1.00	61.14
ATOM	6518	N	THR	D	171	97.493	107.178	203.907	1.00	60.63
ATOM	6519	CA	THR	D	171	97.555	108.628	203.865	1.00	61.15
ATOM	6520	C	THR	D	171	98.857	109.048	204.509	1.00	62.78
ATOM	6521	O	THR	D	171	99.017	110.194	204.923	1.00	65.10
ATOM	6522	CB	THR	D	171	96.366	109.272	204.635	1.00	59.22
ATOM	6523	OG1	THR	D	171	96.557	110.686	204.742	1.00	57.06
ATOM	6524	CG2	THR	D	171	96.270	108.722	206.020	1.00	60.82
ATOM	6525	N	LEU	D	172	99.798	108.113	204.580	1.00	64.23
ATOM	6526	CA	LEU	D	172	101.095	108.382	205.194	1.00	65.58
ATOM	6527	C	LEU	D	172	101.696	109.737	204.811	1.00	63.76
ATOM	6528	O	LEU	D	172	102.153	110.465	205.694	1.00	64.04
ATOM	6529	CB	LEU	D	172	102.092	107.249	204.873	1.00	69.45
ATOM	6530	CG	LEU	D	172	103.547	107.286	205.396	1.00	73.02
ATOM	6531	CD1	LEU	D	172	104.162	105.882	205.309	1.00	73.37
ATOM	6532	CD2	LEU	D	172	104.391	108.284	204.588	1.00	73.30
ATOM	6533	N	PRO	D	173	101.682	110.102	203.507	1.00	60.77
ATOM	6534	CA	PRO	D	173	102.265	111.396	203.153	1.00	60.10
ATOM	6535	C	PRO	D	173	102.300	112.309	204.359	1.00	60.47
ATOM	6536	O	PRO	D	173	101.327	112.980	204.664	1.00	63.65
ATOM	6537	CB	PRO	D	173	101.350	111.904	202.029	1.00	57.55
ATOM	6538	CG	PRO	D	173	100.193	110.949	202.008	1.00	59.37
ATOM	6539	CD	PRO	D	173	100.798	109.653	202.424	1.00	59.23
ATOM	6540	N	ASP	D	174	103.427	112.279	205.060	1.00	60.16
ATOM	6541	CA	ASP	D	174	103.635	113.065	206.262	1.00	61.66
ATOM	6542	C	ASP	D	174	102.731	114.288	206.294	1.00	61.25
ATOM	6543	O	ASP	D	174	102.650	115.034	205.312	1.00	57.85
ATOM	6544	CB	ASP	D	174	105.105	113.463	206.353	1.00	67.46
ATOM	6545	CG	ASP	D	174	106.026	112.255	206.446	1.00	69.01
ATOM	6546	OD1	ASP	D	174	105.951	111.380	205.553	1.00	68.85
ATOM	6547	OD2	ASP	D	174	106.820	112.182	207.412	1.00	71.25
ATOM	6548	N	TYR	D	175	102.062	114.475	207.435	1.00	59.89
ATOM	6549	CA	TYR	D	175	101.096	115.555	207.646	1.00	58.66
ATOM	6550	C	TYR	D	175	100.753	116.472	206.488	1.00	58.23
ATOM	6551	O	TYR	D	175	99.591	116.551	206.091	1.00	61.98
ATOM	6552	CB	TYR	D	175	101.474	116.444	208.824	1.00	58.43
ATOM	6553	CG	TYR	D	175	100.682	117.746	208.840	1.00	55.03
ATOM	6554	CD1	TYR	D	175	99.285	117.749	208.733	1.00	52.82
ATOM	6555	CD2	TYR	D	175	101.329	118.969	208.970	1.00	53.76
ATOM	6556	CE1	TYR	D	175	98.567	118.937	208.757	1.00	52.03
ATOM	6557	CE2	TYR	D	175	100.615	120.158	208.999	1.00	53.57
ATOM	6558	CZ	TYR	D	175	99.243	120.135	208.894	1.00	51.78
ATOM	6559	OH	TYR	D	175	98.561	121.321	208.951	1.00	52.17
ATOM	6560	N	PRO	D	176	101.735	117.217	205.958	1.00	54.90
ATOM	6561	CA	PRO	D	176	101.358	118.094	204.846	1.00	53.15
ATOM	6562	C	PRO	D	176	100.885	117.357	203.572	1.00	51.44
ATOM	6563	O	PRO	D	176	99.921	117.779	202.922	1.00	48.09
ATOM	6564	CB	PRO	D	176	102.625	118.920	204.632	1.00	51.53
ATOM	6565	CG	PRO	D	176	103.708	117.951	205.017	1.00	52.04
ATOM	6566	CD	PRO	D	176	103.163	117.364	206.284	1.00	51.25
ATOM	6567	N	GLY	D	177	101.557	116.252	203.247	1.00	49.34
ATOM	6568	CA	GLY	D	177	101.250	115.466	202.058	1.00	49.99
ATOM	6569	C	GLY	D	177	99.803	115.146	201.725	1.00	50.42
ATOM	6570	O	GLY	D	177	98.903	115.406	202.521	1.00	54.27

ATOM	6571	N	SER D 178	99.574	114.579	200.541	1.00	47.86
ATOM	6572	CA	SER D 178	98.223	114.232	200.122	1.00	44.63
ATOM	6573	C	SER D 178	98.217	113.223	198.982	1.00	44.67
ATOM	6574	O	SER D 178	98.731	113.503	197.914	1.00	42.55
ATOM	6575	CB	SER D 178	97.476	115.482	199.679	1.00	39.67
ATOM	6576	OG	SER D 178	97.753	115.758	198.327	1.00	32.65
ATOM	6577	N	VAL D 179	97.620	112.055	199.214	1.00	47.85
ATOM	6578	CA	VAL D 179	97.555	111.002	198.197	1.00	48.21
ATOM	6579	C	VAL D 179	96.249	110.987	197.437	1.00	48.21
ATOM	6580	O	VAL D 179	95.249	111.580	197.857	1.00	48.59
ATOM	6581	CB	VAL D 179	97.688	109.568	198.791	1.00	45.98
ATOM	6582	CG1	VAL D 179	99.039	109.365	199.416	1.00	47.32
ATOM	6583	CG2	VAL D 179	96.602	109.336	199.811	1.00	48.79
ATOM	6584	N	PRO D 180	96.257	110.316	196.282	1.00	48.01
ATOM	6585	CA	PRO D 180	95.087	110.167	195.417	1.00	47.08
ATOM	6586	C	PRO D 180	94.477	108.822	195.826	1.00	44.90
ATOM	6587	O	PRO D 180	95.203	107.896	196.171	1.00	45.21
ATOM	6588	CB	PRO D 180	95.698	110.163	194.023	1.00	45.64
ATOM	6589	CG	PRO D 180	96.974	109.462	194.238	1.00	47.28
ATOM	6590	CD	PRO D 180	97.496	110.035	195.534	1.00	45.80
ATOM	6591	N	ILE D 181	93.155	108.725	195.825	1.00	43.49
ATOM	6592	CA	ILE D 181	92.488	107.495	196.240	1.00	39.37
ATOM	6593	C	ILE D 181	91.867	106.784	195.070	1.00	36.72
ATOM	6594	O	ILE D 181	90.915	107.254	194.469	1.00	38.13
ATOM	6595	CB	ILE D 181	91.357	107.763	197.268	1.00	40.22
ATOM	6596	CG1	ILE D 181	91.916	108.436	198.524	1.00	38.68
ATOM	6597	CG2	ILE D 181	90.696	106.455	197.653	1.00	40.79
ATOM	6598	CD1	ILE D 181	90.841	108.879	199.477	1.00	31.29
ATOM	6599	N	PRO D 182	92.406	105.629	194.726	1.00	36.10
ATOM	6600	CA	PRO D 182	91.889	104.845	193.611	1.00	35.30
ATOM	6601	C	PRO D 182	90.506	104.329	193.931	1.00	34.63
ATOM	6602	O	PRO D 182	90.325	103.647	194.924	1.00	37.00
ATOM	6603	CB	PRO D 182	92.891	103.716	193.515	1.00	37.05
ATOM	6604	CG	PRO D 182	94.160	104.370	193.983	1.00	36.12
ATOM	6605	CD	PRO D 182	93.687	105.088	195.196	1.00	35.43
ATOM	6606	N	LEU D 183	89.525	104.651	193.101	1.00	35.76
ATOM	6607	CA	LEU D 183	88.167	104.170	193.334	1.00	35.53
ATOM	6608	C	LEU D 183	87.344	104.371	192.069	1.00	36.42
ATOM	6609	O	LEU D 183	87.132	105.499	191.603	1.00	36.41
ATOM	6610	CB	LEU D 183	87.538	104.911	194.518	1.00	36.94
ATOM	6611	CG	LEU D 183	86.462	104.232	195.376	1.00	37.57
ATOM	6612	CD1	LEU D 183	86.210	105.084	196.606	1.00	38.52
ATOM	6613	CD2	LEU D 183	85.179	104.060	194.598	1.00	37.64
ATOM	6614	N	THR D 184	86.902	103.251	191.509	1.00	36.21
ATOM	6615	CA	THR D 184	86.112	103.254	190.287	1.00	35.13
ATOM	6616	C	THR D 184	84.867	102.390	190.455	1.00	35.05
ATOM	6617	O	THR D 184	84.780	101.583	191.378	1.00	33.97
ATOM	6618	CB	THR D 184	86.947	102.709	189.117	1.00	35.00
ATOM	6619	OG1	THR D 184	87.712	101.585	189.575	1.00	35.04
ATOM	6620	CG2	THR D 184	87.893	103.772	188.581	1.00	33.50
ATOM	6621	N	VAL D 185	83.903	102.564	189.561	1.00	35.52
ATOM	6622	CA	VAL D 185	82.674	101.787	189.605	1.00	36.59
ATOM	6623	C	VAL D 185	82.333	101.300	188.224	1.00	39.73
ATOM	6624	O	VAL D 185	82.397	102.079	187.273	1.00	42.43
ATOM	6625	CB	VAL D 185	81.481	102.627	190.068	1.00	35.55
ATOM	6626	CG1	VAL D 185	81.549	102.838	191.534	1.00	40.13
ATOM	6627	CG2	VAL D 185	81.467	103.958	189.353	1.00	30.81
ATOM	6628	N	TYR D 186	81.980	100.027	188.089	1.00	40.22
ATOM	6629	CA	TYR D 186	81.589	99.542	186.777	1.00	45.06
ATOM	6630	C	TYR D 186	80.264	98.821	186.912	1.00	46.73
ATOM	6631	O	TYR D 186	80.117	97.917	187.736	1.00	48.63
ATOM	6632	CB	TYR D 186	82.666	98.641	186.154	1.00	44.11

ATOM	6633	CG	TYR	D	186	82.855	97.307	186.810	1.00	51.25
ATOM	6634	CD1	TYR	D	186	82.018	96.232	186.506	1.00	55.95
ATOM	6635	CD2	TYR	D	186	83.887	97.102	187.721	1.00	54.51
ATOM	6636	CE1	TYR	D	186	82.211	94.978	187.093	1.00	60.61
ATOM	6637	CE2	TYR	D	186	84.089	95.859	188.317	1.00	58.68
ATOM	6638	CZ	TYR	D	186	83.250	94.799	187.999	1.00	61.35
ATOM	6639	OH	TYR	D	186	83.454	93.562	188.582	1.00	66.04
ATOM	6640	N	CYS	D	187	79.281	99.267	186.132	1.00	45.80
ATOM	6641	CA	CYS	D	187	77.964	98.664	186.152	1.00	41.67
ATOM	6642	C	CYS	D	187	77.853	97.742	184.952	1.00	39.54
ATOM	6643	O	CYS	D	187	78.217	98.122	183.853	1.00	35.76
ATOM	6644	CB	CYS	D	187	76.881	99.735	186.055	1.00	42.94
ATOM	6645	SG	CYS	D	187	76.922	101.056	187.313	1.00	44.30
ATOM	6646	N	ALA	D	188	77.345	96.532	185.174	1.00	39.97
ATOM	6647	CA	ALA	D	188	77.164	95.549	184.108	1.00	36.99
ATOM	6648	C	ALA	D	188	76.211	96.106	183.069	1.00	34.67
ATOM	6649	O	ALA	D	188	76.345	95.831	181.888	1.00	35.49
ATOM	6650	CB	ALA	D	188	76.614	94.268	184.682	1.00	37.80
ATOM	6651	N	LYS	D	189	75.244	96.884	183.529	1.00	33.06
ATOM	6652	CA	LYS	D	189	74.267	97.519	182.662	1.00	35.01
ATOM	6653	C	LYS	D	189	74.266	98.987	183.043	1.00	35.69
ATOM	6654	O	LYS	D	189	74.015	99.344	184.197	1.00	33.92
ATOM	6655	CB	LYS	D	189	72.861	96.945	182.882	1.00	36.17
ATOM	6656	CG	LYS	D	189	72.746	95.440	182.679	1.00	39.30
ATOM	6657	CD	LYS	D	189	72.830	95.048	181.202	1.00	42.62
ATOM	6658	CE	LYS	D	189	71.556	95.409	180.451	1.00	43.07
ATOM	6659	NZ	LYS	D	189	71.733	95.352	178.971	1.00	43.87
ATOM	6660	N	SER	D	190	74.557	99.833	182.063	1.00	37.49
ATOM	6661	CA	SER	D	190	74.611	101.271	182.267	1.00	36.67
ATOM	6662	C	SER	D	190	73.416	101.814	183.051	1.00	36.80
ATOM	6663	O	SER	D	190	72.256	101.460	182.792	1.00	37.99
ATOM	6664	CB	SER	D	190	74.726	101.976	180.915	1.00	35.67
ATOM	6665	OG	SER	D	190	74.474	103.364	181.029	1.00	40.87
ATOM	6666	N	GLN	D	191	73.732	102.662	184.027	1.00	35.36
ATOM	6667	CA	GLN	D	191	72.748	103.307	184.882	1.00	34.55
ATOM	6668	C	GLN	D	191	73.415	104.499	185.541	1.00	35.16
ATOM	6669	O	GLN	D	191	74.649	104.577	185.621	1.00	32.20
ATOM	6670	CB	GLN	D	191	72.243	102.345	185.955	1.00	31.60
ATOM	6671	CG	GLN	D	191	73.346	101.634	186.679	1.00	33.07
ATOM	6672	CD	GLN	D	191	72.848	100.865	187.864	1.00	33.49
ATOM	6673	OE1	GLN	D	191	72.247	101.432	188.763	1.00	39.68
ATOM	6674	NE2	GLN	D	191	73.100	99.568	187.880	1.00	37.46
ATOM	6675	N	ASN	D	192	72.586	105.430	186.000	1.00	35.53
ATOM	6676	CA	ASN	D	192	73.079	106.624	186.661	1.00	35.50
ATOM	6677	C	ASN	D	192	73.411	106.396	188.139	1.00	34.61
ATOM	6678	O	ASN	D	192	72.588	105.923	188.913	1.00	36.32
ATOM	6679	CB	ASN	D	192	72.048	107.739	186.549	1.00	34.86
ATOM	6680	CG	ASN	D	192	71.716	108.078	185.119	1.00	40.29
ATOM	6681	OD1	ASN	D	192	72.608	108.164	184.271	1.00	41.36
ATOM	6682	ND2	ASN	D	192	70.428	108.296	184.839	1.00	44.26
ATOM	6683	N	LEU	D	193	74.631	106.725	188.525	1.00	34.34
ATOM	6684	CA	LEU	D	193	75.022	106.593	189.908	1.00	32.78
ATOM	6685	C	LEU	D	193	75.136	107.964	190.556	1.00	34.40
ATOM	6686	O	LEU	D	193	75.275	108.990	189.885	1.00	36.12
ATOM	6687	CB	LEU	D	193	76.358	105.879	190.021	1.00	30.83
ATOM	6688	CG	LEU	D	193	76.318	104.357	189.963	1.00	33.31
ATOM	6689	CD1	LEU	D	193	77.719	103.793	190.218	1.00	33.14
ATOM	6690	CD2	LEU	D	193	75.341	103.842	191.004	1.00	27.69
ATOM	6691	N	GLY	D	194	75.064	107.963	191.878	1.00	34.97
ATOM	6692	CA	GLY	D	194	75.191	109.183	192.654	1.00	34.25
ATOM	6693	C	GLY	D	194	75.779	108.779	193.995	1.00	34.09
ATOM	6694	O	GLY	D	194	75.345	107.780	194.576	1.00	31.84

ATOM	6695	N	TYR	D	195	76.777	109.506	194.491	1.00	32.47
ATOM	6696	CA	TYR	D	195	77.336	109.122	195.781	1.00	32.24
ATOM	6697	C	TYR	D	195	77.574	110.274	196.744	1.00	30.88
ATOM	6698	O	TYR	D	195	77.670	111.429	196.342	1.00	28.99
ATOM	6699	CB	TYR	D	195	78.640	108.366	195.593	1.00	32.37
ATOM	6700	CG	TYR	D	195	79.793	109.279	195.322	1.00	34.89
ATOM	6701	CD1	TYR	D	195	79.912	109.932	194.097	1.00	32.54
ATOM	6702	CD2	TYR	D	195	80.739	109.538	196.314	1.00	33.02
ATOM	6703	CE1	TYR	D	195	80.940	110.827	193.867	1.00	38.46
ATOM	6704	CE2	TYR	D	195	81.778	110.432	196.094	1.00	39.59
ATOM	6705	CZ	TYR	D	195	81.874	111.082	194.869	1.00	39.75
ATOM	6706	OH	TYR	D	195	82.868	112.013	194.657	1.00	37.18
ATOM	6707	N	TYR	D	196	77.633	109.931	198.030	1.00	31.05
ATOM	6708	CA	TYR	D	196	77.898	110.903	199.092	1.00	29.24
ATOM	6709	C	TYR	D	196	78.663	110.251	200.233	1.00	26.05
ATOM	6710	O	TYR	D	196	78.534	109.048	200.485	1.00	25.35
ATOM	6711	CB	TYR	D	196	76.606	111.551	199.613	1.00	27.32
ATOM	6712	CG	TYR	D	196	75.681	110.655	200.396	1.00	26.76
ATOM	6713	CD1	TYR	D	196	76.009	110.214	201.673	1.00	27.24
ATOM	6714	CD2	TYR	D	196	74.462	110.251	199.856	1.00	29.71
ATOM	6715	CE1	TYR	D	196	75.140	109.389	202.395	1.00	28.97
ATOM	6716	CE2	TYR	D	196	73.589	109.426	200.567	1.00	28.14
ATOM	6717	CZ	TYR	D	196	73.932	108.999	201.830	1.00	27.72
ATOM	6718	OH	TYR	D	196	73.077	108.165	202.502	1.00	29.31
ATOM	6719	N	LEU	D	197	79.482	111.060	200.895	1.00	23.73
ATOM	6720	CA	LEU	D	197	80.308	110.613	202.007	1.00	19.70
ATOM	6721	C	LEU	D	197	79.578	110.883	203.315	1.00	19.65
ATOM	6722	O	LEU	D	197	78.795	111.839	203.446	1.00	18.19
ATOM	6723	CB	LEU	D	197	81.637	111.366	202.002	1.00	15.47
ATOM	6724	CG	LEU	D	197	82.338	111.424	200.639	1.00	16.37
ATOM	6725	CD1	LEU	D	197	83.465	112.452	200.667	1.00	15.91
ATOM	6726	CD2	LEU	D	197	82.852	110.040	200.274	1.00	16.25
ATOM	6727	N	SER	D	198	79.831	110.012	204.276	1.00	19.47
ATOM	6728	CA	SER	D	198	79.243	110.107	205.599	1.00	18.09
ATOM	6729	C	SER	D	198	80.337	109.739	206.574	1.00	18.78
ATOM	6730	O	SER	D	198	81.200	108.904	206.282	1.00	18.99
ATOM	6731	CB	SER	D	198	78.084	109.128	205.752	1.00	16.48
ATOM	6732	OG	SER	D	198	78.469	107.814	205.376	1.00	14.04
ATOM	6733	N	GLY	D	199	80.299	110.370	207.734	1.00	19.74
ATOM	6734	CA	GLY	D	199	81.295	110.115	208.751	1.00	19.46
ATOM	6735	C	GLY	D	199	81.215	111.243	209.740	1.00	20.37
ATOM	6736	O	GLY	D	199	80.526	112.237	209.491	1.00	19.38
ATOM	6737	N	THR	D	200	81.899	111.103	210.868	1.00	24.07
ATOM	6738	CA	THR	D	200	81.865	112.169	211.860	1.00	26.40
ATOM	6739	C	THR	D	200	82.659	113.334	211.317	1.00	25.23
ATOM	6740	O	THR	D	200	83.675	113.165	210.657	1.00	27.07
ATOM	6741	CB	THR	D	200	82.468	111.764	213.186	1.00	25.13
ATOM	6742	OG1	THR	D	200	82.070	110.429	213.506	1.00	30.09
ATOM	6743	CG2	THR	D	200	81.962	112.684	214.253	1.00	24.33
ATOM	6744	N	THR	D	201	82.188	114.530	211.592	1.00	22.86
ATOM	6745	CA	THR	D	201	82.868	115.681	211.088	1.00	20.38
ATOM	6746	C	THR	D	201	83.382	116.521	212.230	1.00	18.98
ATOM	6747	O	THR	D	201	82.986	116.335	213.370	1.00	19.16
ATOM	6748	CB	THR	D	201	81.933	116.442	210.161	1.00	21.53
ATOM	6749	OG1	THR	D	201	82.336	116.175	208.817	1.00	22.50
ATOM	6750	CG2	THR	D	201	81.929	117.948	210.445	1.00	23.95
ATOM	6751	N	ALA	D	202	84.267	117.452	211.915	1.00	15.60
ATOM	6752	CA	ALA	D	202	84.859	118.274	212.925	1.00	13.16
ATOM	6753	C	ALA	D	202	84.822	119.777	212.645	1.00	13.98
ATOM	6754	O	ALA	D	202	85.426	120.546	213.377	1.00	16.27
ATOM	6755	CB	ALA	D	202	86.280	117.819	213.093	1.00	11.87
ATOM	6756	N	ASP	D	203	84.117	120.215	211.610	1.00	14.42

ATOM	6757	CA	ASP	D	203	84.118	121.637	211.273	1.00	11.60
ATOM	6758	C	ASP	D	203	82.745	122.136	210.938	1.00	12.66
ATOM	6759	O	ASP	D	203	81.870	121.337	210.657	1.00	18.03
ATOM	6760	CB	ASP	D	203	85.061	121.891	210.093	1.00	16.22
ATOM	6761	CG	ASP	D	203	84.613	121.204	208.798	1.00	18.60
ATOM	6762	OD1	ASP	D	203	84.407	119.965	208.789	1.00	17.87
ATOM	6763	OD2	ASP	D	203	84.483	121.921	207.783	1.00	20.20
ATOM	6764	N	ALA	D	204	82.541	123.449	210.965	1.00	12.14
ATOM	6765	CA	ALA	D	204	81.222	123.987	210.649	1.00	14.34
ATOM	6766	C	ALA	D	204	80.835	123.678	209.219	1.00	17.51
ATOM	6767	O	ALA	D	204	79.665	123.420	208.938	1.00	22.81
ATOM	6768	CB	ALA	D	204	81.173	125.467	210.864	1.00	12.39
ATOM	6769	N	GLY	D	205	81.814	123.701	208.319	1.00	16.75
ATOM	6770	CA	GLY	D	205	81.548	123.411	206.922	1.00	15.87
ATOM	6771	C	GLY	D	205	81.378	121.934	206.608	1.00	16.52
ATOM	6772	O	GLY	D	205	81.290	121.544	205.445	1.00	16.07
ATOM	6773	N	ASN	D	206	81.375	121.110	207.649	1.00	16.94
ATOM	6774	CA	ASN	D	206	81.157	119.666	207.529	1.00	19.26
ATOM	6775	C	ASN	D	206	82.028	118.888	206.549	1.00	18.76
ATOM	6776	O	ASN	D	206	81.603	117.848	206.061	1.00	16.69
ATOM	6777	CB	ASN	D	206	79.687	119.421	207.167	1.00	20.30
ATOM	6778	CG	ASN	D	206	79.216	118.021	207.505	1.00	22.54
ATOM	6779	OD1	ASN	D	206	78.231	117.548	206.957	1.00	36.02
ATOM	6780	ND2	ASN	D	206	79.895	117.365	208.422	1.00	19.56
ATOM	6781	N	SER	D	207	83.243	119.345	206.274	1.00	20.56
ATOM	6782	CA	SER	D	207	84.062	118.626	205.305	1.00	24.61
ATOM	6783	C	SER	D	207	85.358	118.010	205.790	1.00	25.61
ATOM	6784	O	SER	D	207	86.017	117.294	205.045	1.00	27.10
ATOM	6785	CB	SER	D	207	84.353	119.532	204.113	1.00	26.24
ATOM	6786	OG	SER	D	207	84.813	120.789	204.557	1.00	34.50
ATOM	6787	N	ILE	D	208	85.738	118.281	207.031	1.00	28.31
ATOM	6788	CA	ILE	D	208	86.968	117.705	207.575	1.00	26.95
ATOM	6789	C	ILE	D	208	86.613	116.580	208.553	1.00	29.09
ATOM	6790	O	ILE	D	208	86.068	116.827	209.630	1.00	29.69
ATOM	6791	CB	ILE	D	208	87.796	118.775	208.283	1.00	23.36
ATOM	6792	CG1	ILE	D	208	87.877	120.012	207.385	1.00	20.98
ATOM	6793	CG2	ILE	D	208	89.181	118.235	208.587	1.00	17.05
ATOM	6794	CD1	ILE	D	208	88.402	121.222	208.057	1.00	23.03
ATOM	6795	N	PHE	D	209	86.912	115.343	208.156	1.00	31.42
ATOM	6796	CA	PHE	D	209	86.610	114.165	208.967	1.00	30.22
ATOM	6797	C	PHE	D	209	87.580	113.945	210.113	1.00	32.18
ATOM	6798	O	PHE	D	209	88.794	113.910	209.934	1.00	33.51
ATOM	6799	CB	PHE	D	209	86.544	112.928	208.077	1.00	26.77
ATOM	6800	CG	PHE	D	209	85.390	112.947	207.107	1.00	25.51
ATOM	6801	CD1	PHE	D	209	84.131	112.491	207.494	1.00	23.43
ATOM	6802	CD2	PHE	D	209	85.555	113.428	205.812	1.00	25.78
ATOM	6803	CE1	PHE	D	209	83.059	112.509	206.610	1.00	20.78
ATOM	6804	CE2	PHE	D	209	84.483	113.450	204.915	1.00	23.02
ATOM	6805	CZ	PHE	D	209	83.234	112.989	205.316	1.00	23.23
ATOM	6806	N	THR	D	210	87.013	113.793	211.300	1.00	34.79
ATOM	6807	CA	THR	D	210	87.773	113.614	212.524	1.00	39.73
ATOM	6808	C	THR	D	210	88.833	112.529	212.494	1.00	41.91
ATOM	6809	O	THR	D	210	88.745	111.583	211.719	1.00	40.77
ATOM	6810	CB	THR	D	210	86.828	113.335	213.679	1.00	39.50
ATOM	6811	OG1	THR	D	210	85.803	114.333	213.681	1.00	39.85
ATOM	6812	CG2	THR	D	210	87.577	113.384	215.000	1.00	44.17
ATOM	6813	N	ASN	D	211	89.837	112.680	213.356	1.00	46.29
ATOM	6814	CA	ASN	D	211	90.921	111.714	213.445	1.00	51.94
ATOM	6815	C	ASN	D	211	90.571	110.628	214.441	1.00	55.88
ATOM	6816	O	ASN	D	211	90.343	110.899	215.616	1.00	57.81
ATOM	6817	CB	ASN	D	211	92.228	112.384	213.874	1.00	50.37
ATOM	6818	CG	ASN	D	211	93.448	111.487	213.645	1.00	52.83

ATOM	6819	OD1	ASN	D	211	94.588	111.914	213.842	1.00	54.50
ATOM	6820	ND2	ASN	D	211	93.210	110.241	213.227	1.00	44.79
ATOM	6821	N	THR	D	212	90.521	109.397	213.947	1.00	60.29
ATOM	6822	CA	THR	D	212	90.210	108.226	214.753	1.00	64.24
ATOM	6823	C	THR	D	212	91.511	107.461	214.899	1.00	68.36
ATOM	6824	O	THR	D	212	92.032	106.940	213.913	1.00	70.31
ATOM	6825	CB	THR	D	212	89.210	107.325	214.032	1.00	62.76
ATOM	6826	OG1	THR	D	212	87.929	107.953	214.018	1.00	59.57
ATOM	6827	CG2	THR	D	212	89.114	105.979	214.718	1.00	67.93
ATOM	6828	N	ALA	D	213	92.042	107.379	216.111	1.00	70.68
ATOM	6829	CA	ALA	D	213	93.295	106.671	216.279	1.00	73.69
ATOM	6830	C	ALA	D	213	93.551	106.196	217.701	1.00	76.91
ATOM	6831	O	ALA	D	213	92.902	106.642	218.647	1.00	78.44
ATOM	6832	CB	ALA	D	213	94.431	107.556	215.808	1.00	70.77
ATOM	6833	N	SER	D	214	94.508	105.286	217.840	1.00	79.40
ATOM	6834	CA	SER	D	214	94.866	104.749	219.141	1.00	82.28
ATOM	6835	C	SER	D	214	96.159	105.361	219.690	1.00	85.03
ATOM	6836	O	SER	D	214	96.232	105.670	220.879	1.00	86.36
ATOM	6837	CB	SER	D	214	95.008	103.226	219.057	1.00	83.06
ATOM	6838	OG	SER	D	214	95.210	102.643	220.336	1.00	82.92
ATOM	6839	N	PHE	D	215	97.169	105.557	218.839	1.00	87.28
ATOM	6840	CA	PHE	D	215	98.443	106.113	219.304	1.00	88.69
ATOM	6841	C	PHE	D	215	98.750	107.585	219.052	1.00	87.67
ATOM	6842	O	PHE	D	215	99.070	107.997	217.931	1.00	84.96
ATOM	6843	CB	PHE	D	215	99.604	105.294	218.768	1.00	93.14
ATOM	6844	CG	PHE	D	215	100.921	105.602	219.437	1.00	101.05
ATOM	6845	CD1	PHE	D	215	100.989	105.785	220.820	1.00	104.20
ATOM	6846	CD2	PHE	D	215	102.097	105.693	218.692	1.00	103.75
ATOM	6847	CE1	PHE	D	215	102.208	106.058	221.454	1.00	106.01
ATOM	6848	CE2	PHE	D	215	103.323	105.965	219.316	1.00	105.41
ATOM	6849	CZ	PHE	D	215	103.376	106.148	220.700	1.00	106.63
ATOM	6850	N	SER	D	216	98.695	108.355	220.136	1.00	87.82
ATOM	6851	CA	SER	D	216	98.965	109.783	220.108	1.00	87.67
ATOM	6852	C	SER	D	216	98.155	110.462	219.031	1.00	86.08
ATOM	6853	O	SER	D	216	98.624	110.656	217.907	1.00	87.48
ATOM	6854	CB	SER	D	216	100.449	110.050	219.861	1.00	90.00
ATOM	6855	OG	SER	D	216	100.693	111.444	219.764	1.00	91.57
ATOM	6856	N	PRO	D	217	96.916	110.835	219.357	1.00	83.87
ATOM	6857	CA	PRO	D	217	96.085	111.498	218.356	1.00	81.74
ATOM	6858	C	PRO	D	217	96.672	112.848	217.966	1.00	78.88
ATOM	6859	O	PRO	D	217	96.424	113.848	218.636	1.00	78.43
ATOM	6860	CB	PRO	D	217	94.739	111.626	219.061	1.00	82.54
ATOM	6861	CG	PRO	D	217	95.144	111.797	220.497	1.00	82.90
ATOM	6862	CD	PRO	D	217	96.221	110.750	220.651	1.00	83.78
ATOM	6863	N	ALA	D	218	97.471	112.859	216.903	1.00	74.48
ATOM	6864	CA	ALA	D	218	98.069	114.089	216.412	1.00	71.10
ATOM	6865	C	ALA	D	218	96.947	115.116	216.294	1.00	69.30
ATOM	6866	O	ALA	D	218	96.450	115.384	215.206	1.00	69.64
ATOM	6867	CB	ALA	D	218	98.690	113.847	215.055	1.00	70.99
ATOM	6868	N	GLN	D	219	96.546	115.686	217.419	1.00	67.34
ATOM	6869	CA	GLN	D	219	95.466	116.655	217.437	1.00	67.10
ATOM	6870	C	GLN	D	219	95.737	117.843	216.531	1.00	64.80
ATOM	6871	O	GLN	D	219	96.879	118.283	216.402	1.00	65.98
ATOM	6872	CB	GLN	D	219	95.237	117.153	218.868	1.00	69.69
ATOM	6873	CG	GLN	D	219	94.119	118.184	218.997	1.00	72.57
ATOM	6874	CD	GLN	D	219	94.038	118.782	220.389	1.00	74.80
ATOM	6875	OE1	GLN	D	219	93.210	119.652	220.660	1.00	76.11
ATOM	6876	NE2	GLN	D	219	94.904	118.319	221.280	1.00	78.20
ATOM	6877	N	GLY	D	220	94.680	118.354	215.903	1.00	61.51
ATOM	6878	CA	GLY	D	220	94.815	119.516	215.040	1.00	56.16
ATOM	6879	C	GLY	D	220	94.456	119.331	213.579	1.00	51.16
ATOM	6880	O	GLY	D	220	93.965	120.262	212.936	1.00	49.33

ATOM	6881	N	VAL	D	221	94.688	118.131	213.062	1.00	46.21
ATOM	6882	CA	VAL	D	221	94.414	117.840	211.667	1.00	43.94
ATOM	6883	C	VAL	D	221	93.136	117.027	211.467	1.00	40.36
ATOM	6884	O	VAL	D	221	92.423	116.741	212.409	1.00	39.94
ATOM	6885	CB	VAL	D	221	95.589	117.068	211.048	1.00	44.79
ATOM	6886	CG1	VAL	D	221	95.543	117.160	209.527	1.00	45.87
ATOM	6887	CG2	VAL	D	221	96.886	117.618	211.573	1.00	45.57
ATOM	6888	N	GLY	D	222	92.861	116.676	210.218	1.00	36.91
ATOM	6889	CA	GLY	D	222	91.696	115.890	209.880	1.00	34.21
ATOM	6890	C	GLY	D	222	91.826	115.499	208.420	1.00	32.09
ATOM	6891	O	GLY	D	222	92.671	116.040	207.710	1.00	33.23
ATOM	6892	N	VAL	D	223	91.005	114.568	207.957	1.00	26.97
ATOM	6893	CA	VAL	D	223	91.080	114.163	206.567	1.00	22.80
ATOM	6894	C	VAL	D	223	89.926	114.772	205.765	1.00	23.57
ATOM	6895	O	VAL	D	223	88.755	114.669	206.148	1.00	22.68
ATOM	6896	CB	VAL	D	223	91.035	112.627	206.435	1.00	23.16
ATOM	6897	CG1	VAL	D	223	91.239	112.240	204.988	1.00	21.15
ATOM	6898	CG2	VAL	D	223	92.093	111.982	207.318	1.00	16.89
ATOM	6899	N	GLN	D	224	90.260	115.428	204.660	1.00	20.26
ATOM	6900	CA	GLN	D	224	89.247	116.037	203.807	1.00	19.49
ATOM	6901	C	GLN	D	224	89.414	115.438	202.433	1.00	21.03
ATOM	6902	O	GLN	D	224	90.529	115.348	201.946	1.00	26.29
ATOM	6903	CB	GLN	D	224	89.442	117.545	203.726	1.00	14.23
ATOM	6904	CG	GLN	D	224	88.550	118.256	202.720	1.00	14.41
ATOM	6905	CD	GLN	D	224	88.541	119.758	202.919	1.00	18.87
ATOM	6906	OE1	GLN	D	224	87.819	120.279	203.758	1.00	30.64
ATOM	6907	NE2	GLN	D	224	89.357	120.459	202.161	1.00	22.68
ATOM	6908	N	LEU	D	225	88.320	115.014	201.806	1.00	21.44
ATOM	6909	CA	LEU	D	225	88.412	114.421	200.476	1.00	19.33
ATOM	6910	C	LEU	D	225	87.993	115.407	199.414	1.00	18.00
ATOM	6911	O	LEU	D	225	87.045	116.171	199.562	1.00	15.92
ATOM	6912	CB	LEU	D	225	87.589	113.121	200.374	1.00	16.93
ATOM	6913	CG	LEU	D	225	87.847	112.158	201.542	1.00	22.11
ATOM	6914	CD1	LEU	D	225	87.332	110.805	201.184	1.00	21.09
ATOM	6915	CD2	LEU	D	225	89.336	112.089	201.885	1.00	19.49
ATOM	6916	N	THR	D	226	88.744	115.385	198.332	1.00	21.82
ATOM	6917	CA	THR	D	226	88.506	116.275	197.222	1.00	23.48
ATOM	6918	C	THR	D	226	88.459	115.470	195.928	1.00	23.14
ATOM	6919	O	THR	D	226	89.162	114.469	195.783	1.00	24.62
ATOM	6920	CB	THR	D	226	89.637	117.291	197.159	1.00	25.54
ATOM	6921	OG1	THR	D	226	89.515	118.072	195.971	1.00	33.33
ATOM	6922	CG2	THR	D	226	90.974	116.567	197.168	1.00	27.66
ATOM	6923	N	ARG	D	227	87.607	115.891	195.004	1.00	23.40
ATOM	6924	CA	ARG	D	227	87.487	115.221	193.715	1.00	24.91
ATOM	6925	C	ARG	D	227	87.904	116.256	192.678	1.00	28.09
ATOM	6926	O	ARG	D	227	87.143	117.173	192.360	1.00	28.42
ATOM	6927	CB	ARG	D	227	86.048	114.761	193.477	1.00	19.76
ATOM	6928	CG	ARG	D	227	84.994	115.850	193.605	1.00	19.82
ATOM	6929	CD	ARG	D	227	83.611	115.323	193.242	1.00	25.16
ATOM	6930	NE	ARG	D	227	82.743	116.392	192.752	1.00	26.91
ATOM	6931	CZ	ARG	D	227	81.961	117.132	193.525	1.00	31.13
ATOM	6932	NH1	ARG	D	227	81.929	116.913	194.832	1.00	37.52
ATOM	6933	NH2	ARG	D	227	81.227	118.104	193.001	1.00	30.71
ATOM	6934	N	ASN	D	228	89.131	116.121	192.175	1.00	30.93
ATOM	6935	CA	ASN	D	228	89.678	117.075	191.208	1.00	34.29
ATOM	6936	C	ASN	D	228	89.663	118.518	191.742	1.00	34.56
ATOM	6937	O	ASN	D	228	89.119	119.423	191.104	1.00	36.72
ATOM	6938	CB	ASN	D	228	88.891	117.015	189.906	1.00	38.65
ATOM	6939	CG	ASN	D	228	89.202	115.784	189.105	1.00	45.36
ATOM	6940	OD1	ASN	D	228	90.310	115.635	188.594	1.00	46.03
ATOM	6941	ND2	ASN	D	228	88.226	114.882	188.990	1.00	50.52
ATOM	6942	N	GLY	D	229	90.247	118.725	192.918	1.00	31.70

ATOM	6943	CA	GLY	D	229	90.283	120.053	193.499	1.00	30.31
ATOM	6944	C	GLY	D	229	89.004	120.551	194.150	1.00	30.21
ATOM	6945	O	GLY	D	229	89.015	121.600	194.800	1.00	28.34
ATOM	6946	N	THR	D	230	87.908	119.813	193.977	1.00	28.38
ATOM	6947	CA	THR	D	230	86.633	120.202	194.565	1.00	29.44
ATOM	6948	C	THR	D	230	86.409	119.476	195.869	1.00	29.43
ATOM	6949	O	THR	D	230	86.550	118.253	195.931	1.00	32.53
ATOM	6950	CB	THR	D	230	85.477	119.870	193.644	1.00	31.15
ATOM	6951	OG1	THR	D	230	85.597	120.644	192.450	1.00	37.45
ATOM	6952	CG2	THR	D	230	84.157	120.193	194.306	1.00	29.45
ATOM	6953	N	ILE	D	231	86.062	120.229	196.909	1.00	27.25
ATOM	6954	CA	ILE	D	231	85.823	119.641	198.214	1.00	26.02
ATOM	6955	C	ILE	D	231	84.501	118.897	198.244	1.00	24.97
ATOM	6956	O	ILE	D	231	83.528	119.301	197.606	1.00	25.48
ATOM	6957	CB	ILE	D	231	85.798	120.701	199.323	1.00	28.19
ATOM	6958	CG1	ILE	D	231	87.167	121.384	199.428	1.00	25.82
ATOM	6959	CG2	ILE	D	231	85.412	120.048	200.660	1.00	29.82
ATOM	6960	CD1	ILE	D	231	87.271	122.373	200.586	1.00	23.76
ATOM	6961	N	ILE	D	232	84.480	117.806	199.001	1.00	23.12
ATOM	6962	CA	ILE	D	232	83.294	116.973	199.130	1.00	18.70
ATOM	6963	C	ILE	D	232	82.810	116.938	200.576	1.00	17.82
ATOM	6964	O	ILE	D	232	83.272	116.132	201.370	1.00	15.22
ATOM	6965	CB	ILE	D	232	83.581	115.514	198.702	1.00	16.18
ATOM	6966	CG1	ILE	D	232	84.306	115.480	197.358	1.00	14.86
ATOM	6967	CG2	ILE	D	232	82.296	114.746	198.579	1.00	17.19
ATOM	6968	CD1	ILE	D	232	84.608	114.077	196.892	1.00	4.93
ATOM	6969	N	PRO	D	233	81.895	117.837	200.946	1.00	17.14
ATOM	6970	CA	PRO	D	233	81.441	117.762	202.333	1.00	14.72
ATOM	6971	C	PRO	D	233	80.590	116.521	202.496	1.00	17.45
ATOM	6972	O	PRO	D	233	80.148	115.921	201.508	1.00	12.97
ATOM	6973	CB	PRO	D	233	80.620	119.028	202.507	1.00	17.36
ATOM	6974	CG	PRO	D	233	80.161	119.344	201.090	1.00	19.28
ATOM	6975	CD	PRO	D	233	81.369	119.034	200.265	1.00	15.53
ATOM	6976	N	ALA	D	234	80.364	116.140	203.750	1.00	20.90
ATOM	6977	CA	ALA	D	234	79.563	114.966	204.078	1.00	18.53
ATOM	6978	C	ALA	D	234	78.138	115.197	203.620	1.00	18.07
ATOM	6979	O	ALA	D	234	77.662	116.327	203.632	1.00	14.37
ATOM	6980	CB	ALA	D	234	79.590	114.729	205.565	1.00	13.44
ATOM	6981	N	ASN	D	235	77.478	114.131	203.176	1.00	19.41
ATOM	6982	CA	ASN	D	235	76.085	114.222	202.753	1.00	22.84
ATOM	6983	C	ASN	D	235	75.803	115.265	201.694	1.00	23.20
ATOM	6984	O	ASN	D	235	74.921	116.080	201.866	1.00	26.11
ATOM	6985	CB	ASN	D	235	75.208	114.534	203.965	1.00	23.71
ATOM	6986	CG	ASN	D	235	75.610	113.743	205.191	1.00	25.53
ATOM	6987	OD1	ASN	D	235	76.064	114.318	206.197	1.00	24.95
ATOM	6988	ND2	ASN	D	235	75.456	112.412	205.117	1.00	22.52
ATOM	6989	N	ASN	D	236	76.543	115.242	200.597	1.00	28.88
ATOM	6990	CA	ASN	D	236	76.369	116.209	199.508	1.00	28.79
ATOM	6991	C	ASN	D	236	76.542	115.364	198.272	1.00	28.19
ATOM	6992	O	ASN	D	236	77.631	115.302	197.711	1.00	27.68
ATOM	6993	CB	ASN	D	236	77.470	117.277	199.569	1.00	33.08
ATOM	6994	CG	ASN	D	236	77.316	118.342	198.507	1.00	35.99
ATOM	6995	OD1	ASN	D	236	76.346	119.095	198.504	1.00	39.12
ATOM	6996	ND2	ASN	D	236	78.279	118.414	197.596	1.00	39.84
ATOM	6997	N	THR	D	237	75.464	114.699	197.877	1.00	26.73
ATOM	6998	CA	THR	D	237	75.466	113.799	196.737	1.00	26.87
ATOM	6999	C	THR	D	237	76.164	114.378	195.519	1.00	27.14
ATOM	7000	O	THR	D	237	75.895	115.497	195.119	1.00	30.87
ATOM	7001	CB	THR	D	237	74.044	113.436	196.360	1.00	27.37
ATOM	7002	OG1	THR	D	237	73.287	113.178	197.554	1.00	32.36
ATOM	7003	CG2	THR	D	237	74.031	112.208	195.497	1.00	28.79
ATOM	7004	N	VAL	D	238	77.077	113.607	194.948	1.00	25.70

ATOM	7005	CA	VAL	D	238	77.828	114.011	193.766	1.00	26.40
ATOM	7006	C	VAL	D	238	77.351	113.139	192.598	1.00	27.96
ATOM	7007	O	VAL	D	238	77.521	111.913	192.619	1.00	28.84
ATOM	7008	CB	VAL	D	238	79.369	113.783	193.953	1.00	26.32
ATOM	7009	CG1	VAL	D	238	80.095	114.000	192.653	1.00	24.62
ATOM	7010	CG2	VAL	D	238	79.929	114.721	194.974	1.00	27.30
ATOM	7011	N	SER	D	239	76.760	113.763	191.583	1.00	27.12
ATOM	7012	CA	SER	D	239	76.275	113.019	190.425	1.00	28.11
ATOM	7013	C	SER	D	239	77.434	112.499	189.640	1.00	27.17
ATOM	7014	O	SER	D	239	78.250	113.266	189.171	1.00	28.79
ATOM	7015	CB	SER	D	239	75.446	113.907	189.520	1.00	31.36
ATOM	7016	OG	SER	D	239	74.365	114.474	190.246	1.00	44.91
ATOM	7017	N	LEU	D	240	77.498	111.188	189.487	1.00	30.04
ATOM	7018	CA	LEU	D	240	78.579	110.546	188.750	1.00	30.02
ATOM	7019	C	LEU	D	240	78.212	110.322	187.279	1.00	33.23
ATOM	7020	O	LEU	D	240	78.985	109.726	186.513	1.00	31.54
ATOM	7021	CB	LEU	D	240	78.905	109.203	189.395	1.00	27.55
ATOM	7022	CG	LEU	D	240	80.302	109.123	189.985	1.00	25.10
ATOM	7023	CD1	LEU	D	240	80.578	107.705	190.399	1.00	25.12
ATOM	7024	CD2	LEU	D	240	81.320	109.597	188.960	1.00	22.81
ATOM	7025	N	GLY	D	241	77.028	110.806	186.900	1.00	35.40
ATOM	7026	CA	GLY	D	241	76.557	110.658	185.537	1.00	36.28
ATOM	7027	C	GLY	D	241	75.933	109.294	185.375	1.00	36.83
ATOM	7028	O	GLY	D	241	74.945	108.990	186.011	1.00	40.48
ATOM	7029	N	ALA	D	242	76.500	108.469	184.517	1.00	37.51
ATOM	7030	CA	ALA	D	242	75.975	107.132	184.324	1.00	37.39
ATOM	7031	C	ALA	D	242	77.183	106.249	184.157	1.00	38.43
ATOM	7032	O	ALA	D	242	77.995	106.460	183.260	1.00	36.88
ATOM	7033	CB	ALA	D	242	75.122	107.076	183.088	1.00	39.62
ATOM	7034	N	VAL	D	243	77.316	105.272	185.037	1.00	38.22
ATOM	7035	CA	VAL	D	243	78.445	104.382	184.959	1.00	38.29
ATOM	7036	C	VAL	D	243	78.048	103.205	184.102	1.00	40.36
ATOM	7037	O	VAL	D	243	76.923	102.725	184.183	1.00	40.33
ATOM	7038	CB	VAL	D	243	78.849	103.878	186.333	1.00	39.78
ATOM	7039	CG1	VAL	D	243	80.108	103.047	186.211	1.00	39.29
ATOM	7040	CG2	VAL	D	243	79.058	105.047	187.272	1.00	36.39
ATOM	7041	N	GLY	D	244	78.982	102.744	183.281	1.00	42.35
ATOM	7042	CA	GLY	D	244	78.709	101.630	182.406	1.00	44.00
ATOM	7043	C	GLY	D	244	79.742	100.537	182.516	1.00	46.30
ATOM	7044	O	GLY	D	244	80.193	100.218	183.612	1.00	45.24
ATOM	7045	N	THR	D	245	80.121	99.970	181.372	1.00	50.38
ATOM	7046	CA	THR	D	245	81.087	98.874	181.330	1.00	54.40
ATOM	7047	C	THR	D	245	82.509	99.344	181.608	1.00	55.43
ATOM	7048	O	THR	D	245	83.382	98.529	181.914	1.00	57.86
ATOM	7049	CB	THR	D	245	81.069	98.147	179.956	1.00	55.01
ATOM	7050	OG1	THR	D	245	81.734	98.950	178.970	1.00	60.44
ATOM	7051	CG2	THR	D	245	79.645	97.914	179.503	1.00	53.19
ATOM	7052	N	SER	D	246	82.733	100.655	181.495	1.00	54.95
ATOM	7053	CA	SER	D	246	84.049	101.257	181.732	1.00	53.17
ATOM	7054	C	SER	D	246	84.083	101.944	183.088	1.00	50.22
ATOM	7055	O	SER	D	246	83.517	103.022	183.248	1.00	51.69
ATOM	7056	CB	SER	D	246	84.356	102.287	180.651	1.00	54.04
ATOM	7057	OG	SER	D	246	84.299	101.701	179.367	1.00	61.36
ATOM	7058	N	ALA	D	247	84.755	101.328	184.056	1.00	46.09
ATOM	7059	CA	ALA	D	247	84.832	101.881	185.404	1.00	44.25
ATOM	7060	C	ALA	D	247	85.218	103.358	185.441	1.00	43.25
ATOM	7061	O	ALA	D	247	86.276	103.745	184.953	1.00	45.35
ATOM	7062	CB	ALA	D	247	85.807	101.075	186.240	1.00	43.05
ATOM	7063	N	VAL	D	248	84.343	104.180	186.010	1.00	40.07
ATOM	7064	CA	VAL	D	248	84.601	105.605	186.135	1.00	37.06
ATOM	7065	C	VAL	D	248	85.358	105.776	187.432	1.00	39.36
ATOM	7066	O	VAL	D	248	85.028	105.118	188.421	1.00	42.46

ATOM	7067	CB	VAL	D	248	83.315	106.412	186.293	1.00	32.53
ATOM	7068	CG1	VAL	D	248	83.646	107.884	186.379	1.00	31.06
ATOM	7069	CG2	VAL	D	248	82.382	106.134	185.155	1.00	33.46
ATOM	7070	N	SER	D	249	86.377	106.631	187.446	1.00	37.38
ATOM	7071	CA	SER	D	249	87.101	106.865	188.689	1.00	35.58
ATOM	7072	C	SER	D	249	86.425	108.053	189.305	1.00	34.31
ATOM	7073	O	SER	D	249	86.079	109.005	188.605	1.00	34.70
ATOM	7074	CB	SER	D	249	88.569	107.208	188.455	1.00	37.23
ATOM	7075	OG	SER	D	249	89.242	107.405	189.692	1.00	33.91
ATOM	7076	N	LEU	D	250	86.224	107.999	190.611	1.00	32.26
ATOM	7077	CA	LEU	D	250	85.581	109.106	191.295	1.00	31.85
ATOM	7078	C	LEU	D	250	86.551	110.298	191.367	1.00	27.41
ATOM	7079	O	LEU	D	250	86.132	111.425	191.599	1.00	25.20
ATOM	7080	CB	LEU	D	250	85.141	108.674	192.707	1.00	35.85
ATOM	7081	CG	LEU	D	250	84.384	107.340	192.895	1.00	35.65
ATOM	7082	CD1	LEU	D	250	83.908	107.259	194.354	1.00	33.31
ATOM	7083	CD2	LEU	D	250	83.202	107.225	191.933	1.00	27.50
ATOM	7084	N	GLY	D	251	87.836	110.025	191.151	1.00	22.95
ATOM	7085	CA	GLY	D	251	88.853	111.057	191.187	1.00	21.64
ATOM	7086	C	GLY	D	251	89.026	111.687	192.552	1.00	23.38
ATOM	7087	O	GLY	D	251	88.940	112.904	192.711	1.00	25.66
ATOM	7088	N	LEU	D	252	89.309	110.864	193.546	1.00	23.87
ATOM	7089	CA	LEU	D	252	89.450	111.361	194.905	1.00	24.86
ATOM	7090	C	LEU	D	252	90.874	111.492	195.427	1.00	27.50
ATOM	7091	O	LEU	D	252	91.766	110.727	195.078	1.00	27.85
ATOM	7092	CB	LEU	D	252	88.701	110.447	195.859	1.00	22.80
ATOM	7093	CG	LEU	D	252	87.303	110.041	195.446	1.00	22.52
ATOM	7094	CD1	LEU	D	252	86.861	108.900	196.350	1.00	24.48
ATOM	7095	CD2	LEU	D	252	86.381	111.230	195.512	1.00	15.79
ATOM	7096	N	THR	D	253	91.072	112.468	196.301	1.00	29.84
ATOM	7097	CA	THR	D	253	92.371	112.680	196.915	1.00	29.08
ATOM	7098	C	THR	D	253	92.129	112.902	198.395	1.00	28.01
ATOM	7099	O	THR	D	253	91.281	113.715	198.767	1.00	24.77
ATOM	7100	CB	THR	D	253	93.073	113.925	196.362	1.00	28.22
ATOM	7101	OG1	THR	D	253	93.152	113.835	194.941	1.00	28.40
ATOM	7102	CG2	THR	D	253	94.470	114.019	196.910	1.00	27.99
ATOM	7103	N	ALA	D	254	92.850	112.148	199.223	1.00	25.71
ATOM	7104	CA	ALA	D	254	92.754	112.281	200.666	1.00	23.00
ATOM	7105	C	ALA	D	254	93.670	113.456	200.981	1.00	24.60
ATOM	7106	O	ALA	D	254	94.852	113.441	200.631	1.00	27.52
ATOM	7107	CB	ALA	D	254	93.265	111.026	201.340	1.00	15.52
ATOM	7108	N	ASN	D	255	93.124	114.484	201.615	1.00	22.18
ATOM	7109	CA	ASN	D	255	93.909	115.656	201.956	1.00	21.71
ATOM	7110	C	ASN	D	255	93.871	115.914	203.428	1.00	21.88
ATOM	7111	O	ASN	D	255	92.850	115.677	204.076	1.00	22.43
ATOM	7112	CB	ASN	D	255	93.355	116.912	201.296	1.00	20.23
ATOM	7113	CG	ASN	D	255	93.212	116.771	199.831	1.00	18.13
ATOM	7114	OD1	ASN	D	255	93.101	117.751	199.119	1.00	23.57
ATOM	7115	ND2	ASN	D	255	93.202	115.546	199.358	1.00	21.10
ATOM	7116	N	TYR	D	256	94.982	116.410	203.961	1.00	23.22
ATOM	7117	CA	TYR	D	256	95.004	116.780	205.361	1.00	22.11
ATOM	7118	C	TYR	D	256	94.456	118.207	205.368	1.00	22.52
ATOM	7119	O	TYR	D	256	94.772	119.022	204.476	1.00	20.60
ATOM	7120	CB	TYR	D	256	96.418	116.785	205.938	1.00	17.80
ATOM	7121	CG	TYR	D	256	97.010	115.433	206.162	1.00	15.81
ATOM	7122	CD1	TYR	D	256	96.864	114.787	207.384	1.00	22.12
ATOM	7123	CD2	TYR	D	256	97.773	114.827	205.183	1.00	18.02
ATOM	7124	CE1	TYR	D	256	97.473	113.572	207.631	1.00	24.18
ATOM	7125	CE2	TYR	D	256	98.394	113.611	205.407	1.00	23.58
ATOM	7126	CZ	TYR	D	256	98.246	112.982	206.638	1.00	27.68
ATOM	7127	OH	TYR	D	256	98.887	111.772	206.876	1.00	31.94
ATOM	7128	N	ALA	D	257	93.603	118.486	206.344	1.00	21.22

ATOM	7129	CA	ALA	D	257	93.038	119.807	206.505	1.00	24.77
ATOM	7130	C	ALA	D	257	93.124	119.999	207.995	1.00	28.71
ATOM	7131	O	ALA	D	257	93.185	119.028	208.746	1.00	28.20
ATOM	7132	CB	ALA	D	257	91.599	119.842	206.042	1.00	22.56
ATOM	7133	N	ARG	D	258	93.157	121.245	208.427	1.00	33.29
ATOM	7134	CA	ARG	D	258	93.248	121.515	209.843	1.00	38.62
ATOM	7135	C	ARG	D	258	91.879	121.839	210.412	1.00	44.43
ATOM	7136	O	ARG	D	258	91.027	122.409	209.722	1.00	45.48
ATOM	7137	CB	ARG	D	258	94.187	122.687	210.093	1.00	36.68
ATOM	7138	CG	ARG	D	258	95.600	122.418	209.732	1.00	35.49
ATOM	7139	CD	ARG	D	258	96.349	123.708	209.713	1.00	41.11
ATOM	7140	NE	ARG	D	258	96.226	124.410	210.981	1.00	48.38
ATOM	7141	CZ	ARG	D	258	96.691	125.635	211.197	1.00	50.14
ATOM	7142	NH1	ARG	D	258	97.310	126.290	210.217	1.00	49.19
ATOM	7143	NH2	ARG	D	258	96.541	126.200	212.390	1.00	48.96
ATOM	7144	N	THR	D	259	91.695	121.477	211.679	1.00	49.74
ATOM	7145	CA	THR	D	259	90.461	121.708	212.407	1.00	53.00
ATOM	7146	C	THR	D	259	90.688	122.859	213.373	1.00	56.89
ATOM	7147	O	THR	D	259	90.280	123.987	213.110	1.00	57.55
ATOM	7148	CB	THR	D	259	90.078	120.461	213.193	1.00	53.97
ATOM	7149	OG1	THR	D	259	91.202	120.014	213.959	1.00	54.33
ATOM	7150	CG2	THR	D	259	89.674	119.354	212.248	1.00	57.33
ATOM	7151	N	GLY	D	260	91.359	122.566	214.484	1.00	62.70
ATOM	7152	CA	GLY	D	260	91.655	123.582	215.484	1.00	66.44
ATOM	7153	C	GLY	D	260	93.045	124.177	215.313	1.00	69.52
ATOM	7154	O	GLY	D	260	93.898	123.596	214.624	1.00	71.29
ATOM	7155	N	GLY	D	261	93.277	125.328	215.944	1.00	69.43
ATOM	7156	CA	GLY	D	261	94.564	125.998	215.844	1.00	69.75
ATOM	7157	C	GLY	D	261	95.695	125.491	216.730	1.00	69.62
ATOM	7158	O	GLY	D	261	96.135	126.188	217.645	1.00	71.90
ATOM	7159	N	GLN	D	262	96.177	124.284	216.458	1.00	68.22
ATOM	7160	CA	GLN	D	262	97.278	123.707	217.224	1.00	66.52
ATOM	7161	C	GLN	D	262	97.681	122.346	216.681	1.00	63.21
ATOM	7162	O	GLN	D	262	97.653	121.342	217.399	1.00	63.17
ATOM	7163	CB	GLN	D	262	96.914	123.568	218.705	1.00	69.52
ATOM	7164	CG	GLN	D	262	98.071	123.043	219.568	1.00	76.23
ATOM	7165	CD	GLN	D	262	99.350	123.890	219.449	1.00	80.30
ATOM	7166	OE1	GLN	D	262	100.419	123.491	219.928	1.00	80.94
ATOM	7167	NE2	GLN	D	262	99.240	125.061	218.814	1.00	80.62
ATOM	7168	N	VAL	D	263	98.056	122.314	215.408	1.00	58.28
ATOM	7169	CA	VAL	D	263	98.463	121.071	214.799	1.00	55.08
ATOM	7170	C	VAL	D	263	99.493	120.454	215.733	1.00	53.30
ATOM	7171	O	VAL	D	263	100.298	121.162	216.312	1.00	53.87
ATOM	7172	CB	VAL	D	263	99.063	121.326	213.415	1.00	54.97
ATOM	7173	CG1	VAL	D	263	99.367	120.002	212.722	1.00	56.58
ATOM	7174	CG2	VAL	D	263	98.086	122.128	212.585	1.00	54.32
ATOM	7175	N	THR	D	264	99.462	119.138	215.891	1.00	51.71
ATOM	7176	CA	THR	D	264	100.393	118.487	216.787	1.00	48.91
ATOM	7177	C	THR	D	264	100.797	117.078	216.393	1.00	54.15
ATOM	7178	O	THR	D	264	99.983	116.301	215.900	1.00	55.19
ATOM	7179	CB	THR	D	264	99.801	118.432	218.150	1.00	44.18
ATOM	7180	OG1	THR	D	264	99.543	119.770	218.577	1.00	38.84
ATOM	7181	CG2	THR	D	264	100.740	117.707	219.112	1.00	40.12
ATOM	7182	N	ALA	D	265	102.067	116.758	216.634	1.00	56.65
ATOM	7183	CA	ALA	D	265	102.634	115.452	216.326	1.00	56.53
ATOM	7184	C	ALA	D	265	101.684	114.316	216.649	1.00	57.99
ATOM	7185	O	ALA	D	265	100.841	114.428	217.538	1.00	59.53
ATOM	7186	CB	ALA	D	265	103.924	115.267	217.095	1.00	57.87
ATOM	7187	N	GLY	D	266	101.830	113.216	215.922	1.00	59.95
ATOM	7188	CA	GLY	D	266	100.982	112.059	216.154	1.00	62.86
ATOM	7189	C	GLY	D	266	100.438	111.402	214.897	1.00	63.14
ATOM	7190	O	GLY	D	266	100.719	111.837	213.773	1.00	62.35

ATOM	7191	N	ASN	D	267	99.653	110.345	215.089	1.00	63.62
ATOM	7192	CA	ASN	D	267	99.064	109.644	213.959	1.00	62.74
ATOM	7193	C	ASN	D	267	97.688	110.189	213.595	1.00	60.82
ATOM	7194	O	ASN	D	267	96.931	110.658	214.451	1.00	57.45
ATOM	7195	CB	ASN	D	267	98.992	108.142	214.236	1.00	64.33
ATOM	7196	CG	ASN	D	267	100.361	107.524	214.374	1.00	65.75
ATOM	7197	OD1	ASN	D	267	100.540	106.319	214.199	1.00	67.74
ATOM	7198	ND2	ASN	D	267	101.343	108.353	214.699	1.00	66.40
ATOM	7199	N	VAL	D	268	97.396	110.129	212.300	1.00	59.28
ATOM	7200	CA	VAL	D	268	96.149	110.609	211.730	1.00	57.55
ATOM	7201	C	VAL	D	268	95.527	109.501	210.882	1.00	57.32
ATOM	7202	O	VAL	D	268	96.009	109.193	209.789	1.00	56.40
ATOM	7203	CB	VAL	D	268	96.417	111.857	210.848	1.00	57.02
ATOM	7204	CG1	VAL	D	268	95.176	112.262	210.097	1.00	57.36
ATOM	7205	CG2	VAL	D	268	96.889	113.002	211.716	1.00	58.48
ATOM	7206	N	GLN	D	269	94.469	108.888	211.403	1.00	55.82
ATOM	7207	CA	GLN	D	269	93.761	107.823	210.694	1.00	55.70
ATOM	7208	C	GLN	D	269	92.287	108.186	210.606	1.00	55.06
ATOM	7209	O	GLN	D	269	91.740	108.784	211.532	1.00	56.69
ATOM	7210	CB	GLN	D	269	93.923	106.495	211.425	1.00	54.10
ATOM	7211	CG	GLN	D	269	95.178	105.750	211.059	1.00	57.64
ATOM	7212	CD	GLN	D	269	95.488	104.644	212.036	1.00	61.06
ATOM	7213	OE1	GLN	D	269	94.612	103.860	212.409	1.00	64.60
ATOM	7214	NE2	GLN	D	269	96.744	104.569	212.460	1.00	63.92
ATOM	7215	N	SER	D	270	91.638	107.823	209.504	1.00	52.76
ATOM	7216	CA	SER	D	270	90.235	108.164	209.342	1.00	50.82
ATOM	7217	C	SER	D	270	89.390	107.068	208.697	1.00	49.54
ATOM	7218	O	SER	D	270	89.897	106.200	207.984	1.00	47.08
ATOM	7219	CB	SER	D	270	90.121	109.458	208.534	1.00	48.67
ATOM	7220	OG	SER	D	270	88.867	110.072	208.741	1.00	51.34
ATOM	7221	N	ILE	D	271	88.090	107.124	208.971	1.00	49.37
ATOM	7222	CA	ILE	D	271	87.131	106.160	208.440	1.00	49.16
ATOM	7223	C	ILE	D	271	85.947	106.874	207.800	1.00	45.12
ATOM	7224	O	ILE	D	271	85.173	107.542	208.474	1.00	43.26
ATOM	7225	CB	ILE	D	271	86.616	105.239	209.557	1.00	53.38
ATOM	7226	CG1	ILE	D	271	86.315	106.075	210.817	1.00	53.31
ATOM	7227	CG2	ILE	D	271	87.637	104.115	209.801	1.00	55.49
ATOM	7228	CD1	ILE	D	271	85.702	105.304	211.987	1.00	47.84
ATOM	7229	N	ILE	D	272	85.808	106.720	206.494	1.00	41.84
ATOM	7230	CA	ILE	D	272	84.736	107.377	205.776	1.00	40.35
ATOM	7231	C	ILE	D	272	83.836	106.420	205.043	1.00	38.63
ATOM	7232	O	ILE	D	272	84.302	105.476	204.410	1.00	38.75
ATOM	7233	CB	ILE	D	272	85.283	108.351	204.718	1.00	44.48
ATOM	7234	CG1	ILE	D	272	86.210	109.371	205.369	1.00	43.96
ATOM	7235	CG2	ILE	D	272	84.134	109.052	204.012	1.00	46.42
ATOM	7236	CD1	ILE	D	272	85.636	109.964	206.602	1.00	43.00
ATOM	7237	N	GLY	D	273	82.542	106.684	205.101	1.00	34.99
ATOM	7238	CA	GLY	D	273	81.623	105.828	204.392	1.00	35.48
ATOM	7239	C	GLY	D	273	81.255	106.469	203.073	1.00	34.56
ATOM	7240	O	GLY	D	273	80.871	107.639	203.040	1.00	37.16
ATOM	7241	N	VAL	D	274	81.401	105.722	201.982	1.00	31.59
ATOM	7242	CA	VAL	D	274	81.030	106.228	200.666	1.00	27.53
ATOM	7243	C	VAL	D	274	79.734	105.486	200.328	1.00	28.89
ATOM	7244	O	VAL	D	274	79.684	104.249	200.353	1.00	27.07
ATOM	7245	CB	VAL	D	274	82.110	105.927	199.610	1.00	25.15
ATOM	7246	CG1	VAL	D	274	81.922	106.846	198.410	1.00	20.03
ATOM	7247	CG2	VAL	D	274	83.497	106.078	200.222	1.00	17.15
ATOM	7248	N	THR	D	275	78.675	106.245	200.053	1.00	29.85
ATOM	7249	CA	THR	D	275	77.375	105.656	199.753	1.00	29.87
ATOM	7250	C	THR	D	275	76.938	105.959	198.339	1.00	28.05
ATOM	7251	O	THR	D	275	76.721	107.128	197.976	1.00	21.76
ATOM	7252	CB	THR	D	275	76.280	106.183	200.713	1.00	33.23

ATOM	7253	OG1	THR	D	275	76.651	105.898	202.066	1.00	38.12
ATOM	7254	CG2	THR	D	275	74.933	105.527	200.414	1.00	35.68
ATOM	7255	N	PHE	D	276	76.811	104.887	197.554	1.00	25.13
ATOM	7256	CA	PHE	D	276	76.381	104.989	196.170	1.00	23.00
ATOM	7257	C	PHE	D	276	74.872	104.926	196.101	1.00	20.07
ATOM	7258	O	PHE	D	276	74.260	104.000	196.605	1.00	21.77
ATOM	7259	CB	PHE	D	276	77.008	103.875	195.346	1.00	16.81
ATOM	7260	CG	PHE	D	276	78.469	104.053	195.133	1.00	17.80
ATOM	7261	CD1	PHE	D	276	79.368	103.770	196.143	1.00	19.83
ATOM	7262	CD2	PHE	D	276	78.952	104.520	193.917	1.00	22.24
ATOM	7263	CE1	PHE	D	276	80.738	103.939	195.952	1.00	24.43
ATOM	7264	CE2	PHE	D	276	80.321	104.698	193.711	1.00	24.02
ATOM	7265	CZ	PHE	D	276	81.219	104.404	194.733	1.00	22.44
ATOM	7266	N	VAL	D	277	74.272	105.930	195.482	1.00	21.18
ATOM	7267	CA	VAL	D	277	72.822	106.001	195.384	1.00	21.36
ATOM	7268	C	VAL	D	277	72.333	105.581	194.012	1.00	20.96
ATOM	7269	O	VAL	D	277	72.745	106.143	193.009	1.00	23.51
ATOM	7270	CB	VAL	D	277	72.321	107.429	195.650	1.00	19.27
ATOM	7271	CG1	VAL	D	277	70.846	107.392	195.942	1.00	20.61
ATOM	7272	CG2	VAL	D	277	73.084	108.060	196.803	1.00	16.87
ATOM	7273	N	TYR	D	278	71.435	104.603	193.975	1.00	22.51
ATOM	7274	CA	TYR	D	278	70.884	104.099	192.721	1.00	21.20
ATOM	7275	C	TYR	D	278	69.580	104.761	192.330	1.00	22.00
ATOM	7276	O	TYR	D	278	68.770	105.121	193.192	1.00	21.06
ATOM	7277	CB	TYR	D	278	70.671	102.595	192.827	1.00	19.66
ATOM	7278	CG	TYR	D	278	71.968	101.865	192.988	1.00	19.29
ATOM	7279	CD1	TYR	D	278	72.682	101.942	194.176	1.00	17.55
ATOM	7280	CD2	TYR	D	278	72.535	101.183	191.919	1.00	17.96
ATOM	7281	CE1	TYR	D	278	73.930	101.371	194.293	1.00	19.88
ATOM	7282	CE2	TYR	D	278	73.790	100.607	192.020	1.00	22.17
ATOM	7283	CZ	TYR	D	278	74.488	100.707	193.207	1.00	22.32
ATOM	7284	OH	TYR	D	278	75.763	100.187	193.290	1.00	25.85
ATOM	7285	N	GLN	D	279	69.370	104.921	191.026	1.00	22.62
ATOM	7286	CA	GLN	D	279	68.133	105.528	190.551	1.00	22.09
ATOM	7287	C	GLN	D	279	67.016	104.517	190.350	1.00	21.54
ATOM	7288	O	GLN	D	279	65.879	104.862	190.713	1.00	21.21
ATOM	7289	CB	GLN	D	279	68.350	106.283	189.245	1.00	25.09
ATOM	7290	CG	GLN	D	279	67.102	107.054	188.840	1.00	26.91
ATOM	7291	CD	GLN	D	279	67.206	107.759	187.502	1.00	27.86
ATOM	7292	OE1	GLN	D	279	66.411	108.664	187.230	1.00	26.92
ATOM	7293	NE2	GLN	D	279	68.170	107.347	186.654	1.00	18.24
ATOM	7294	OXT	GLN	D	279	67.279	103.415	189.813	1.00	22.98
ATOM	7295	N	GLY	E	1	53.902	43.471	88.280	1.00	37.75
ATOM	7296	CA	GLY	E	1	54.475	43.192	89.623	1.00	34.05
ATOM	7297	C	GLY	E	1	55.676	44.055	89.944	1.00	32.25
ATOM	7298	O	GLY	E	1	55.658	45.267	89.723	1.00	32.35
ATOM	7299	N	VAL	E	2	56.723	43.426	90.472	1.00	28.21
ATOM	7300	CA	VAL	E	2	57.945	44.135	90.831	1.00	22.70
ATOM	7301	C	VAL	E	2	59.121	43.475	90.125	1.00	22.84
ATOM	7302	O	VAL	E	2	59.241	42.262	90.152	1.00	25.31
ATOM	7303	CB	VAL	E	2	58.135	44.121	92.360	1.00	15.45
ATOM	7304	CG1	VAL	E	2	59.414	44.793	92.736	1.00	14.36
ATOM	7305	CG2	VAL	E	2	56.966	44.837	93.024	1.00	10.78
ATOM	7306	N	ALA	E	3	59.968	44.266	89.463	1.00	25.28
ATOM	7307	CA	ALA	E	3	61.118	43.704	88.737	1.00	26.71
ATOM	7308	C	ALA	E	3	62.430	44.441	88.965	1.00	26.16
ATOM	7309	O	ALA	E	3	62.460	45.657	89.156	1.00	25.40
ATOM	7310	CB	ALA	E	3	60.824	43.632	87.238	1.00	27.01
ATOM	7311	N	LEU	E	4	63.516	43.679	88.943	1.00	24.53
ATOM	7312	CA	LEU	E	4	64.832	44.235	89.155	1.00	22.96
ATOM	7313	C	LEU	E	4	65.378	44.745	87.833	1.00	27.55
ATOM	7314	O	LEU	E	4	65.068	44.203	86.760	1.00	27.65

ATOM	7315	CB	LEU	E	4	65.755	43.174	89.745	1.00	16.44
ATOM	7316	CG	LEU	E	4	65.227	42.438	90.994	1.00	16.69
ATOM	7317	CD1	LEU	E	4	66.270	41.415	91.449	1.00	14.27
ATOM	7318	CD2	LEU	E	4	64.913	43.399	92.123	1.00	10.59
ATOM	7319	N	GLY	E	5	66.179	45.808	87.918	1.00	29.69
ATOM	7320	CA	GLY	E	5	66.767	46.412	86.735	1.00	26.27
ATOM	7321	C	GLY	E	5	67.764	45.537	86.001	1.00	25.40
ATOM	7322	O	GLY	E	5	67.968	45.718	84.811	1.00	28.96
ATOM	7323	N	ALA	E	6	68.396	44.600	86.702	1.00	24.34
ATOM	7324	CA	ALA	E	6	69.378	43.704	86.096	1.00	22.91
ATOM	7325	C	ALA	E	6	68.920	42.268	86.167	1.00	24.12
ATOM	7326	O	ALA	E	6	67.906	41.950	86.781	1.00	29.08
ATOM	7327	CB	ALA	E	6	70.677	43.822	86.803	1.00	18.94
ATOM	7328	N	THR	E	7	69.682	41.396	85.534	1.00	23.39
ATOM	7329	CA	THR	E	7	69.373	39.982	85.546	1.00	21.88
ATOM	7330	C	THR	E	7	70.523	39.309	86.269	1.00	21.87
ATOM	7331	O	THR	E	7	70.538	38.095	86.461	1.00	21.06
ATOM	7332	CB	THR	E	7	69.247	39.425	84.127	1.00	23.31
ATOM	7333	OG1	THR	E	7	70.362	39.867	83.324	1.00	24.91
ATOM	7334	CG2	THR	E	7	67.927	39.875	83.526	1.00	20.82
ATOM	7335	N	ARG	E	8	71.497	40.128	86.653	1.00	21.55
ATOM	7336	CA	ARG	E	8	72.664	39.675	87.401	1.00	20.33
ATOM	7337	C	ARG	E	8	73.398	40.914	87.905	1.00	19.33
ATOM	7338	O	ARG	E	8	73.069	42.040	87.538	1.00	15.61
ATOM	7339	CB	ARG	E	8	73.588	38.821	86.536	1.00	16.64
ATOM	7340	CG	ARG	E	8	74.615	39.593	85.735	1.00	20.51
ATOM	7341	CD	ARG	E	8	74.485	39.344	84.238	1.00	24.75
ATOM	7342	NE	ARG	E	8	74.538	37.928	83.852	1.00	24.52
ATOM	7343	CZ	ARG	E	8	73.467	37.148	83.733	1.00	23.66
ATOM	7344	NH1	ARG	E	8	72.252	37.646	83.961	1.00	20.91
ATOM	7345	NH2	ARG	E	8	73.607	35.878	83.378	1.00	17.65
ATOM	7346	N	VAL	E	9	74.395	40.708	88.751	1.00	19.27
ATOM	7347	CA	VAL	E	9	75.132	41.827	89.304	1.00	16.21
ATOM	7348	C	VAL	E	9	76.572	41.463	89.522	1.00	18.39
ATOM	7349	O	VAL	E	9	76.886	40.369	89.990	1.00	18.96
ATOM	7350	CB	VAL	E	9	74.556	42.261	90.653	1.00	16.79
ATOM	7351	CG1	VAL	E	9	75.562	43.103	91.395	1.00	17.88
ATOM	7352	CG2	VAL	E	9	73.276	43.056	90.445	1.00	18.22
ATOM	7353	N	ILE	E	10	77.449	42.397	89.179	1.00	17.99
ATOM	7354	CA	ILE	E	10	78.872	42.202	89.351	1.00	17.57
ATOM	7355	C	ILE	E	10	79.414	43.098	90.443	1.00	20.29
ATOM	7356	O	ILE	E	10	79.369	44.317	90.330	1.00	19.83
ATOM	7357	CB	ILE	E	10	79.633	42.495	88.080	1.00	11.93
ATOM	7358	CG1	ILE	E	10	79.131	41.585	86.979	1.00	12.70
ATOM	7359	CG2	ILE	E	10	81.112	42.272	88.308	1.00	15.68
ATOM	7360	CD1	ILE	E	10	79.156	40.115	87.335	1.00	15.13
ATOM	7361	N	TYR	E	11	79.916	42.477	91.506	1.00	22.98
ATOM	7362	CA	TYR	E	11	80.483	43.221	92.610	1.00	23.08
ATOM	7363	C	TYR	E	11	81.989	43.305	92.490	1.00	25.54
ATOM	7364	O	TYR	E	11	82.696	42.311	92.674	1.00	26.11
ATOM	7365	CB	TYR	E	11	80.160	42.585	93.943	1.00	20.51
ATOM	7366	CG	TYR	E	11	80.044	43.616	95.012	1.00	22.59
ATOM	7367	CD1	TYR	E	11	81.175	44.150	95.626	1.00	25.35
ATOM	7368	CD2	TYR	E	11	78.797	44.086	95.401	1.00	25.91
ATOM	7369	CE1	TYR	E	11	81.062	45.132	96.617	1.00	24.67
ATOM	7370	CE2	TYR	E	11	78.669	45.062	96.384	1.00	30.29
ATOM	7371	CZ	TYR	E	11	79.800	45.579	96.991	1.00	29.84
ATOM	7372	OH	TYR	E	11	79.641	46.516	97.984	1.00	30.81
ATOM	7373	N	PRO	E	12	82.495	44.505	92.176	1.00	26.95
ATOM	7374	CA	PRO	E	12	83.919	44.823	92.015	1.00	24.77
ATOM	7375	C	PRO	E	12	84.613	44.864	93.385	1.00	23.96
ATOM	7376	O	PRO	E	12	84.281	45.691	94.243	1.00	17.91

ATOM	7377	CB	PRO	E	12	83.899	46.205	91.349	1.00	26.46
ATOM	7378	CG	PRO	E	12	82.485	46.351	90.810	1.00	29.48
ATOM	7379	CD	PRO	E	12	81.650	45.664	91.834	1.00	26.05
ATOM	7380	N	ALA	E	13	85.573	43.971	93.588	1.00	25.71
ATOM	7381	CA	ALA	E	13	86.279	43.937	94.853	1.00	32.48
ATOM	7382	C	ALA	E	13	86.820	45.325	95.146	1.00	38.11
ATOM	7383	O	ALA	E	13	87.476	45.940	94.302	1.00	40.34
ATOM	7384	CB	ALA	E	13	87.409	42.938	94.800	1.00	34.88
ATOM	7385	N	GLY	E	14	86.531	45.817	96.346	1.00	42.57
ATOM	7386	CA	GLY	E	14	86.980	47.139	96.736	1.00	45.74
ATOM	7387	C	GLY	E	14	85.804	48.093	96.830	1.00	48.71
ATOM	7388	O	GLY	E	14	85.673	48.838	97.805	1.00	48.77
ATOM	7389	N	GLN	E	15	84.951	48.060	95.807	1.00	51.39
ATOM	7390	CA	GLN	E	15	83.760	48.904	95.727	1.00	51.38
ATOM	7391	C	GLN	E	15	83.070	49.086	97.063	1.00	50.55
ATOM	7392	O	GLN	E	15	82.677	48.115	97.704	1.00	50.82
ATOM	7393	CB	GLN	E	15	82.761	48.302	94.742	1.00	54.11
ATOM	7394	CG	GLN	E	15	82.949	48.760	93.324	1.00	56.91
ATOM	7395	CD	GLN	E	15	82.747	50.244	93.188	1.00	59.76
ATOM	7396	OE1	GLN	E	15	81.678	50.770	93.514	1.00	59.09
ATOM	7397	NE2	GLN	E	15	83.776	50.938	92.707	1.00	63.05
ATOM	7398	N	LYS	E	16	82.909	50.333	97.482	1.00	50.82
ATOM	7399	CA	LYS	E	16	82.250	50.588	98.753	1.00	51.61
ATOM	7400	C	LYS	E	16	80.830	50.075	98.689	1.00	49.40
ATOM	7401	O	LYS	E	16	80.305	49.640	99.693	1.00	52.85
ATOM	7402	CB	LYS	E	16	82.240	52.079	99.084	1.00	54.57
ATOM	7403	CG	LYS	E	16	82.100	52.391	100.582	1.00	56.65
ATOM	7404	CD	LYS	E	16	81.974	53.907	100.859	1.00	57.32
ATOM	7405	CE	LYS	E	16	83.141	54.729	100.291	1.00	54.77
ATOM	7406	NZ	LYS	E	16	84.456	54.332	100.856	1.00	52.52
ATOM	7407	N	GLN	E	17	80.207	50.127	97.512	1.00	47.73
ATOM	7408	CA	GLN	E	17	78.833	49.630	97.343	1.00	46.10
ATOM	7409	C	GLN	E	17	78.407	49.468	95.881	1.00	42.31
ATOM	7410	O	GLN	E	17	79.030	50.028	94.988	1.00	43.72
ATOM	7411	CB	GLN	E	17	77.847	50.561	98.034	1.00	45.68
ATOM	7412	CG	GLN	E	17	77.820	51.937	97.426	1.00	49.62
ATOM	7413	CD	GLN	E	17	76.515	52.651	97.696	1.00	50.67
ATOM	7414	OE1	GLN	E	17	76.070	52.743	98.848	1.00	50.84
ATOM	7415	NE2	GLN	E	17	75.889	53.162	96.636	1.00	47.37
ATOM	7416	N	VAL	E	18	77.346	48.698	95.650	1.00	37.75
ATOM	7417	CA	VAL	E	18	76.815	48.470	94.302	1.00	35.89
ATOM	7418	C	VAL	E	18	75.292	48.619	94.279	1.00	35.41
ATOM	7419	O	VAL	E	18	74.580	48.033	95.095	1.00	33.85
ATOM	7420	CB	VAL	E	18	77.175	47.074	93.773	1.00	35.14
ATOM	7421	CG1	VAL	E	18	76.433	46.802	92.484	1.00	30.04
ATOM	7422	CG2	VAL	E	18	78.670	46.988	93.537	1.00	36.46
ATOM	7423	N	GLN	E	19	74.798	49.383	93.312	1.00	34.69
ATOM	7424	CA	GLN	E	19	73.377	49.664	93.213	1.00	33.20
ATOM	7425	C	GLN	E	19	72.612	48.826	92.213	1.00	31.17
ATOM	7426	O	GLN	E	19	73.129	48.472	91.168	1.00	30.81
ATOM	7427	CB	GLN	E	19	73.200	51.146	92.909	1.00	32.61
ATOM	7428	CG	GLN	E	19	74.143	51.974	93.771	1.00	46.22
ATOM	7429	CD	GLN	E	19	73.868	53.459	93.741	1.00	53.37
ATOM	7430	OE1	GLN	E	19	74.410	54.215	94.558	1.00	55.81
ATOM	7431	NE2	GLN	E	19	73.029	53.893	92.802	1.00	55.47
ATOM	7432	N	LEU	E	20	71.379	48.491	92.571	1.00	29.72
ATOM	7433	CA	LEU	E	20	70.496	47.717	91.724	1.00	27.85
ATOM	7434	C	LEU	E	20	69.144	48.420	91.760	1.00	29.95
ATOM	7435	O	LEU	E	20	68.718	48.911	92.813	1.00	29.11
ATOM	7436	CB	LEU	E	20	70.360	46.289	92.257	1.00	29.76
ATOM	7437	CG	LEU	E	20	69.397	45.320	91.540	1.00	28.42
ATOM	7438	CD1	LEU	E	20	69.919	44.978	90.174	1.00	26.37

ATOM	7439	CD2	LEU	E	20	69.256	44.045	92.340	1.00	28.74
ATOM	7440	N	ALA	E	21	68.471	48.468	90.614	1.00	29.53
ATOM	7441	CA	ALA	E	21	67.175	49.133	90.520	1.00	28.04
ATOM	7442	C	ALA	E	21	66.000	48.186	90.708	1.00	27.64
ATOM	7443	O	ALA	E	21	66.023	47.049	90.245	1.00	27.37
ATOM	7444	CB	ALA	E	21	67.056	49.835	89.166	1.00	31.71
ATOM	7445	N	VAL	E	22	64.972	48.678	91.389	1.00	26.44
ATOM	7446	CA	VAL	E	22	63.755	47.916	91.635	1.00	25.24
ATOM	7447	C	VAL	E	22	62.584	48.798	91.265	1.00	26.27
ATOM	7448	O	VAL	E	22	62.571	49.983	91.571	1.00	26.87
ATOM	7449	CB	VAL	E	22	63.601	47.538	93.110	1.00	23.25
ATOM	7450	CG1	VAL	E	22	62.263	46.853	93.347	1.00	24.01
ATOM	7451	CG2	VAL	E	22	64.716	46.631	93.506	1.00	25.86
ATOM	7452	N	THR	E	23	61.597	48.223	90.602	1.00	27.58
ATOM	7453	CA	THR	E	23	60.452	49.004	90.220	1.00	30.58
ATOM	7454	C	THR	E	23	59.171	48.193	90.254	1.00	33.20
ATOM	7455	O	THR	E	23	59.152	47.015	89.911	1.00	32.86
ATOM	7456	CB	THR	E	23	60.648	49.654	88.824	1.00	28.41
ATOM	7457	OG1	THR	E	23	59.414	49.604	88.102	1.00	33.33
ATOM	7458	CG2	THR	E	23	61.733	48.963	88.049	1.00	21.65
ATOM	7459	N	ASN	E	24	58.111	48.865	90.687	1.00	34.66
ATOM	7460	CA	ASN	E	24	56.789	48.304	90.823	1.00	36.10
ATOM	7461	C	ASN	E	24	55.914	48.855	89.706	1.00	39.24
ATOM	7462	O	ASN	E	24	55.736	50.066	89.589	1.00	37.26
ATOM	7463	CB	ASN	E	24	56.238	48.700	92.196	1.00	36.54
ATOM	7464	CG	ASN	E	24	54.820	48.250	92.408	1.00	38.03
ATOM	7465	OD1	ASN	E	24	54.419	47.196	91.922	1.00	41.35
ATOM	7466	ND2	ASN	E	24	54.054	49.033	93.151	1.00	36.16
ATOM	7467	N	ASN	E	25	55.367	47.946	88.902	1.00	44.17
ATOM	7468	CA	ASN	E	25	54.505	48.265	87.751	1.00	47.30
ATOM	7469	C	ASN	E	25	53.037	48.430	88.067	1.00	47.05
ATOM	7470	O	ASN	E	25	52.311	49.112	87.353	1.00	46.64
ATOM	7471	CB	ASN	E	25	54.614	47.164	86.708	1.00	47.84
ATOM	7472	CG	ASN	E	25	56.029	46.924	86.286	1.00	53.78
ATOM	7473	OD1	ASN	E	25	56.965	47.212	87.039	1.00	53.60
ATOM	7474	ND2	ASN	E	25	56.209	46.382	85.083	1.00	59.57
ATOM	7475	N	ASP	E	26	52.598	47.779	89.126	1.00	49.72
ATOM	7476	CA	ASP	E	26	51.206	47.818	89.516	1.00	53.39
ATOM	7477	C	ASP	E	26	50.739	49.209	89.942	1.00	56.01
ATOM	7478	O	ASP	E	26	51.045	49.687	91.042	1.00	54.75
ATOM	7479	CB	ASP	E	26	50.986	46.777	90.610	1.00	56.02
ATOM	7480	CG	ASP	E	26	51.477	45.385	90.191	1.00	59.22
ATOM	7481	OD1	ASP	E	26	51.862	45.220	89.013	1.00	57.95
ATOM	7482	OD2	ASP	E	26	51.481	44.455	91.030	1.00	62.06
ATOM	7483	N	GLU	E	27	49.990	49.840	89.037	1.00	58.55
ATOM	7484	CA	GLU	E	27	49.445	51.184	89.215	1.00	62.28
ATOM	7485	C	GLU	E	27	48.835	51.438	90.575	1.00	60.87
ATOM	7486	O	GLU	E	27	48.620	52.582	90.961	1.00	60.97
ATOM	7487	CB	GLU	E	27	48.390	51.470	88.138	1.00	68.13
ATOM	7488	CG	GLU	E	27	48.870	52.381	87.002	1.00	76.65
ATOM	7489	CD	GLU	E	27	47.884	52.461	85.836	1.00	80.99
ATOM	7490	OE1	GLU	E	27	46.689	52.765	86.076	1.00	81.55
ATOM	7491	OE2	GLU	E	27	48.316	52.223	84.681	1.00	81.98
ATOM	7492	N	ASN	E	28	48.548	50.370	91.298	1.00	60.93
ATOM	7493	CA	ASN	E	28	47.950	50.505	92.612	1.00	63.90
ATOM	7494	C	ASN	E	28	47.952	49.181	93.367	1.00	63.30
ATOM	7495	O	ASN	E	28	47.189	48.257	93.068	1.00	65.30
ATOM	7496	CB	ASN	E	28	46.522	51.066	92.485	1.00	68.50
ATOM	7497	CG	ASN	E	28	45.686	50.348	91.417	1.00	72.95
ATOM	7498	OD1	ASN	E	28	44.600	50.810	91.060	1.00	73.13
ATOM	7499	ND2	ASN	E	28	46.186	49.219	90.912	1.00	73.14
ATOM	7500	N	SER	E	29	48.840	49.110	94.348	1.00	60.80

ATOM	7501	CA	SER	E	29	49.010	47.937	95.184	1.00	59.03
ATOM	7502	C	SER	E	29	50.382	48.085	95.827	1.00	58.62
ATOM	7503	O	SER	E	29	51.408	48.080	95.145	1.00	61.18
ATOM	7504	CB	SER	E	29	48.945	46.644	94.352	1.00	57.16
ATOM	7505	OG	SER	E	29	50.023	46.539	93.443	1.00	51.44
ATOM	7506	N	THR	E	30	50.396	48.236	97.142	1.00	54.58
ATOM	7507	CA	THR	E	30	51.639	48.393	97.862	1.00	50.49
ATOM	7508	C	THR	E	30	52.370	47.066	98.050	1.00	47.85
ATOM	7509	O	THR	E	30	51.766	45.999	97.979	1.00	45.15
ATOM	7510	CB	THR	E	30	51.363	49.036	99.219	1.00	49.82
ATOM	7511	OG1	THR	E	30	50.849	50.353	99.006	1.00	50.94
ATOM	7512	CG2	THR	E	30	52.626	49.124	100.049	1.00	52.89
ATOM	7513	N	TYR	E	31	53.683	47.148	98.256	1.00	47.31
ATOM	7514	CA	TYR	E	31	54.517	45.971	98.491	1.00	44.49
ATOM	7515	C	TYR	E	31	55.607	46.241	99.518	1.00	43.24
ATOM	7516	O	TYR	E	31	56.040	47.377	99.734	1.00	44.51
ATOM	7517	CB	TYR	E	31	55.200	45.491	97.211	1.00	44.15
ATOM	7518	CG	TYR	E	31	54.288	44.867	96.182	1.00	43.35
ATOM	7519	CD1	TYR	E	31	53.947	43.517	96.250	1.00	41.02
ATOM	7520	CD2	TYR	E	31	53.772	45.623	95.136	1.00	41.81
ATOM	7521	CE1	TYR	E	31	53.117	42.939	95.299	1.00	37.79
ATOM	7522	CE2	TYR	E	31	52.943	45.053	94.184	1.00	41.08
ATOM	7523	CZ	TYR	E	31	52.621	43.715	94.271	1.00	38.09
ATOM	7524	OH	TYR	E	31	51.807	43.166	93.322	1.00	35.65
ATOM	7525	N	LEU	E	32	56.043	45.168	100.153	1.00	40.83
ATOM	7526	CA	LEU	E	32	57.104	45.224	101.139	1.00	36.91
ATOM	7527	C	LEU	E	32	58.280	44.554	100.464	1.00	35.99
ATOM	7528	O	LEU	E	32	58.214	43.365	100.122	1.00	36.34
ATOM	7529	CB	LEU	E	32	56.694	44.446	102.379	1.00	35.10
ATOM	7530	CG	LEU	E	32	56.135	45.322	103.483	1.00	32.36
ATOM	7531	CD1	LEU	E	32	55.253	44.521	104.415	1.00	32.04
ATOM	7532	CD2	LEU	E	32	57.301	45.933	104.203	1.00	27.85
ATOM	7533	N	ILE	E	33	59.347	45.317	100.267	1.00	31.33
ATOM	7534	CA	ILE	E	33	60.531	44.811	99.601	1.00	28.19
ATOM	7535	C	ILE	E	33	61.644	44.318	100.507	1.00	28.37
ATOM	7536	O	ILE	E	33	62.404	45.114	101.057	1.00	30.17
ATOM	7537	CB	ILE	E	33	61.102	45.881	98.689	1.00	26.13
ATOM	7538	CG1	ILE	E	33	60.003	46.373	97.758	1.00	27.66
ATOM	7539	CG2	ILE	E	33	62.275	45.333	97.907	1.00	29.14
ATOM	7540	CD1	ILE	E	33	59.331	45.266	96.991	1.00	23.20
ATOM	7541	N	GLN	E	34	61.737	43.000	100.662	1.00	27.05
ATOM	7542	CA	GLN	E	34	62.801	42.407	101.464	1.00	28.95
ATOM	7543	C	GLN	E	34	63.851	41.827	100.516	1.00	30.16
ATOM	7544	O	GLN	E	34	63.518	41.140	99.542	1.00	30.22
ATOM	7545	CB	GLN	E	34	62.271	41.303	102.375	1.00	26.16
ATOM	7546	CG	GLN	E	34	61.645	41.786	103.670	1.00	23.32
ATOM	7547	CD	GLN	E	34	61.334	40.639	104.607	1.00	22.85
ATOM	7548	OE1	GLN	E	34	61.265	39.480	104.184	1.00	19.21
ATOM	7549	NE2	GLN	E	34	61.123	40.953	105.885	1.00	22.07
ATOM	7550	N	SER	E	35	65.117	42.103	100.810	1.00	29.19
ATOM	7551	CA	SER	E	35	66.214	41.640	99.966	1.00	27.28
ATOM	7552	C	SER	E	35	67.374	41.098	100.786	1.00	23.85
ATOM	7553	O	SER	E	35	67.670	41.627	101.841	1.00	24.91
ATOM	7554	CB	SER	E	35	66.680	42.809	99.107	1.00	26.34
ATOM	7555	OG	SER	E	35	65.906	43.956	99.437	1.00	31.99
ATOM	7556	N	TRP	E	36	68.010	40.036	100.302	1.00	21.93
ATOM	7557	CA	TRP	E	36	69.159	39.428	100.980	1.00	23.58
ATOM	7558	C	TRP	E	36	70.124	38.719	100.007	1.00	24.84
ATOM	7559	O	TRP	E	36	69.818	38.529	98.828	1.00	26.72
ATOM	7560	CB	TRP	E	36	68.694	38.432	102.044	1.00	21.63
ATOM	7561	CG	TRP	E	36	67.977	37.248	101.498	1.00	18.68
ATOM	7562	CD1	TRP	E	36	68.475	35.985	101.329	1.00	18.19

ATOM	7563	CD2	TRP	E	36	66.622	37.209	101.063	1.00	15.20
ATOM	7564	NE1	TRP	E	36	67.504	35.158	100.818	1.00	15.86
ATOM	7565	CE2	TRP	E	36	66.354	35.885	100.644	1.00	15.21
ATOM	7566	CE3	TRP	E	36	65.603	38.163	100.986	1.00	15.47
ATOM	7567	CZ2	TRP	E	36	65.101	35.490	100.155	1.00	13.74
ATOM	7568	CZ3	TRP	E	36	64.353	37.772	100.497	1.00	20.41
ATOM	7569	CH2	TRP	E	36	64.114	36.442	100.088	1.00	17.10
ATOM	7570	N	VAL	E	37	71.286	38.315	100.505	1.00	21.32
ATOM	7571	CA	VAL	E	37	72.250	37.665	99.642	1.00	20.62
ATOM	7572	C	VAL	E	37	72.720	36.310	100.144	1.00	20.73
ATOM	7573	O	VAL	E	37	73.455	36.215	101.118	1.00	25.08
ATOM	7574	CB	VAL	E	37	73.489	38.573	99.413	1.00	19.59
ATOM	7575	CG1	VAL	E	37	74.572	37.806	98.672	1.00	18.20
ATOM	7576	CG2	VAL	E	37	73.092	39.805	98.623	1.00	19.90
ATOM	7577	N	GLU	E	38	72.309	35.254	99.466	1.00	19.42
ATOM	7578	CA	GLU	E	38	72.725	33.922	99.856	1.00	21.52
ATOM	7579	C	GLU	E	38	74.032	33.603	99.149	1.00	23.64
ATOM	7580	O	GLU	E	38	74.397	34.271	98.179	1.00	25.71
ATOM	7581	CB	GLU	E	38	71.651	32.914	99.475	1.00	19.37
ATOM	7582	CG	GLU	E	38	70.319	33.208	100.121	1.00	18.40
ATOM	7583	CD	GLU	E	38	69.231	32.300	99.620	1.00	20.80
ATOM	7584	OE1	GLU	E	38	69.553	31.151	99.252	1.00	19.80
ATOM	7585	OE2	GLU	E	38	68.056	32.728	99.605	1.00	22.04
ATOM	7586	N	ASN	E	39	74.755	32.605	99.635	1.00	22.60
ATOM	7587	CA	ASN	E	39	76.008	32.264	98.994	1.00	26.30
ATOM	7588	C	ASN	E	39	75.771	31.086	98.043	1.00	29.73
ATOM	7589	O	ASN	E	39	74.644	30.610	97.913	1.00	30.52
ATOM	7590	CB	ASN	E	39	77.075	31.927	100.044	1.00	23.81
ATOM	7591	CG	ASN	E	39	76.797	30.620	100.776	1.00	22.45
ATOM	7592	OD1	ASN	E	39	75.747	30.014	100.612	1.00	25.36
ATOM	7593	ND2	ASN	E	39	77.744	30.187	101.590	1.00	19.08
ATOM	7594	N	ALA	E	40	76.826	30.630	97.373	1.00	30.23
ATOM	7595	CA	ALA	E	40	76.705	29.525	96.444	1.00	32.25
ATOM	7596	C	ALA	E	40	75.921	28.354	97.038	1.00	34.33
ATOM	7597	O	ALA	E	40	75.108	27.735	96.355	1.00	37.27
ATOM	7598	CB	ALA	E	40	78.078	29.067	96.015	1.00	30.85
ATOM	7599	N	ASP	E	41	76.152	28.044	98.306	1.00	34.84
ATOM	7600	CA	ASP	E	41	75.442	26.935	98.908	1.00	34.94
ATOM	7601	C	ASP	E	41	74.084	27.362	99.413	1.00	34.65
ATOM	7602	O	ASP	E	41	73.446	26.636	100.163	1.00	39.30
ATOM	7603	CB	ASP	E	41	76.248	26.322	100.051	1.00	39.24
ATOM	7604	CG	ASP	E	41	77.572	25.732	99.589	1.00	43.17
ATOM	7605	OD1	ASP	E	41	77.581	24.916	98.639	1.00	44.57
ATOM	7606	OD2	ASP	E	41	78.607	26.081	100.192	1.00	45.28
ATOM	7607	N	GLY	E	42	73.641	28.544	99.008	1.00	32.48
ATOM	7608	CA	GLY	E	42	72.334	29.029	99.422	1.00	31.51
ATOM	7609	C	GLY	E	42	72.141	29.290	100.901	1.00	30.87
ATOM	7610	O	GLY	E	42	71.016	29.282	101.405	1.00	31.31
ATOM	7611	N	VAL	E	43	73.232	29.526	101.609	1.00	30.32
ATOM	7612	CA	VAL	E	43	73.135	29.798	103.026	1.00	30.10
ATOM	7613	C	VAL	E	43	73.215	31.306	103.254	1.00	33.23
ATOM	7614	O	VAL	E	43	74.134	31.986	102.772	1.00	34.14
ATOM	7615	CB	VAL	E	43	74.255	29.089	103.807	1.00	27.74
ATOM	7616	CG1	VAL	E	43	74.451	27.685	103.256	1.00	21.59
ATOM	7617	CG2	VAL	E	43	75.542	29.884	103.733	1.00	31.68
ATOM	7618	N	LYS	E	44	72.229	31.832	103.968	1.00	34.30
ATOM	7619	CA	LYS	E	44	72.202	33.248	104.263	1.00	34.78
ATOM	7620	C	LYS	E	44	73.316	33.598	105.245	1.00	37.17
ATOM	7621	O	LYS	E	44	73.079	33.655	106.455	1.00	38.57
ATOM	7622	CB	LYS	E	44	70.871	33.641	104.895	1.00	35.29
ATOM	7623	CG	LYS	E	44	69.647	33.262	104.119	1.00	37.73
ATOM	7624	CD	LYS	E	44	68.462	34.080	104.598	1.00	39.09

ATOM	7625	CE	LYS	E	44	67.182	33.616	103.947	1.00	41.39
ATOM	7626	NZ	LYS	E	44	66.895	32.186	104.266	1.00	44.00
ATOM	7627	N	ASP	E	45	74.537	33.788	104.751	1.00	36.92
ATOM	7628	CA	ASP	E	45	75.618	34.197	105.641	1.00	33.20
ATOM	7629	C	ASP	E	45	75.632	35.700	105.497	1.00	34.30
ATOM	7630	O	ASP	E	45	74.730	36.276	104.887	1.00	35.83
ATOM	7631	CB	ASP	E	45	76.959	33.627	105.213	1.00	33.52
ATOM	7632	CG	ASP	E	45	77.135	33.617	103.727	1.00	32.94
ATOM	7633	OD1	ASP	E	45	76.895	34.659	103.076	1.00	39.28
ATOM	7634	OD2	ASP	E	45	77.518	32.557	103.213	1.00	32.64
ATOM	7635	N	GLY	E	46	76.660	36.353	106.003	1.00	33.61
ATOM	7636	CA	GLY	E	46	76.641	37.797	105.916	1.00	34.83
ATOM	7637	C	GLY	E	46	77.433	38.473	104.833	1.00	35.46
ATOM	7638	O	GLY	E	46	77.305	39.682	104.665	1.00	38.76
ATOM	7639	N	ARG	E	47	78.240	37.713	104.100	1.00	33.46
ATOM	7640	CA	ARG	E	47	79.078	38.277	103.059	1.00	27.88
ATOM	7641	C	ARG	E	47	78.556	39.556	102.437	1.00	24.88
ATOM	7642	O	ARG	E	47	79.319	40.481	102.218	1.00	26.85
ATOM	7643	CB	ARG	E	47	79.331	37.244	101.978	1.00	33.70
ATOM	7644	CG	ARG	E	47	80.551	36.406	102.235	1.00	41.61
ATOM	7645	CD	ARG	E	47	80.328	35.335	103.272	1.00	47.71
ATOM	7646	NE	ARG	E	47	81.606	34.751	103.668	1.00	57.01
ATOM	7647	CZ	ARG	E	47	82.587	35.446	104.237	1.00	58.22
ATOM	7648	NH1	ARG	E	47	82.427	36.738	104.467	1.00	59.50
ATOM	7649	NH2	ARG	E	47	83.719	34.856	104.590	1.00	59.74
ATOM	7650	N	PHE	E	48	77.262	39.622	102.155	1.00	21.10
ATOM	7651	CA	PHE	E	48	76.690	40.818	101.557	1.00	19.09
ATOM	7652	C	PHE	E	48	75.387	41.236	102.225	1.00	18.39
ATOM	7653	O	PHE	E	48	74.525	40.411	102.511	1.00	14.18
ATOM	7654	CB	PHE	E	48	76.457	40.614	100.043	1.00	22.16
ATOM	7655	CG	PHE	E	48	77.723	40.482	99.254	1.00	21.23
ATOM	7656	CD1	PHE	E	48	78.431	39.283	99.254	1.00	23.54
ATOM	7657	CD2	PHE	E	48	78.273	41.590	98.617	1.00	22.29
ATOM	7658	CE1	PHE	E	48	79.674	39.185	98.649	1.00	23.70
ATOM	7659	CE2	PHE	E	48	79.517	41.512	98.005	1.00	22.47
ATOM	7660	CZ	PHE	E	48	80.223	40.305	98.025	1.00	25.68
ATOM	7661	N	ILE	E	49	75.250	42.533	102.464	1.00	19.06
ATOM	7662	CA	ILE	E	49	74.059	43.068	103.078	1.00	19.98
ATOM	7663	C	ILE	E	49	73.467	44.154	102.204	1.00	23.18
ATOM	7664	O	ILE	E	49	74.174	45.034	101.729	1.00	26.79
ATOM	7665	CB	ILE	E	49	74.379	43.580	104.453	1.00	21.83
ATOM	7666	CG1	ILE	E	49	74.573	42.377	105.373	1.00	23.69
ATOM	7667	CG2	ILE	E	49	73.269	44.473	104.953	1.00	24.07
ATOM	7668	CD1	ILE	E	49	75.192	42.718	106.695	1.00	34.97
ATOM	7669	N	VAL	E	50	72.157	44.073	101.999	1.00	25.17
ATOM	7670	CA	VAL	E	50	71.419	44.988	101.132	1.00	25.24
ATOM	7671	C	VAL	E	50	70.591	45.996	101.895	1.00	26.70
ATOM	7672	O	VAL	E	50	69.908	45.636	102.843	1.00	27.72
ATOM	7673	CB	VAL	E	50	70.417	44.202	100.225	1.00	25.20
ATOM	7674	CG1	VAL	E	50	69.773	45.130	99.215	1.00	25.13
ATOM	7675	CG2	VAL	E	50	71.114	43.041	99.541	1.00	23.27
ATOM	7676	N	THR	E	51	70.635	47.254	101.469	1.00	29.44
ATOM	7677	CA	THR	E	51	69.813	48.294	102.086	1.00	28.91
ATOM	7678	C	THR	E	51	69.045	49.020	100.985	1.00	28.61
ATOM	7679	O	THR	E	51	69.537	49.193	99.869	1.00	28.87
ATOM	7680	CB	THR	E	51	70.627	49.366	102.869	1.00	29.48
ATOM	7681	OG1	THR	E	51	71.544	50.025	101.994	1.00	34.04
ATOM	7682	CG2	THR	E	51	71.387	48.757	103.994	1.00	31.22
ATOM	7683	N	PRO	E	52	67.816	49.438	101.288	1.00	27.67
ATOM	7684	CA	PRO	E	52	67.247	49.197	102.614	1.00	28.97
ATOM	7685	C	PRO	E	52	66.792	47.740	102.841	1.00	30.96
ATOM	7686	O	PRO	E	52	66.216	47.102	101.957	1.00	30.41

ATOM	7687	CB	PRO	E	52	66.109	50.217	102.691	1.00	25.05
ATOM	7688	CG	PRO	E	52	65.760	50.471	101.272	1.00	27.90
ATOM	7689	CD	PRO	E	52	67.082	50.498	100.581	1.00	27.23
ATOM	7690	N	PRO	E	53	67.060	47.195	104.039	1.00	32.19
ATOM	7691	CA	PRO	E	53	66.680	45.819	104.365	1.00	31.88
ATOM	7692	C	PRO	E	53	65.179	45.554	104.286	1.00	32.51
ATOM	7693	O	PRO	E	53	64.759	44.421	104.063	1.00	34.53
ATOM	7694	CB	PRO	E	53	67.233	45.643	105.772	1.00	31.79
ATOM	7695	CG	PRO	E	53	67.124	47.025	106.339	1.00	29.82
ATOM	7696	CD	PRO	E	53	67.638	47.867	105.218	1.00	31.63
ATOM	7697	N	LEU	E	54	64.375	46.596	104.466	1.00	31.12
ATOM	7698	CA	LEU	E	54	62.916	46.461	104.402	1.00	30.76
ATOM	7699	C	LEU	E	54	62.249	47.798	104.061	1.00	29.14
ATOM	7700	O	LEU	E	54	62.534	48.801	104.717	1.00	30.83
ATOM	7701	CB	LEU	E	54	62.375	45.973	105.750	1.00	29.54
ATOM	7702	CG	LEU	E	54	60.850	45.923	105.842	1.00	28.49
ATOM	7703	CD1	LEU	E	54	60.327	44.654	105.169	1.00	32.71
ATOM	7704	CD2	LEU	E	54	60.440	45.952	107.282	1.00	27.40
ATOM	7705	N	PHE	E	55	61.385	47.824	103.046	1.00	22.96
ATOM	7706	CA	PHE	E	55	60.682	49.059	102.700	1.00	25.81
ATOM	7707	C	PHE	E	55	59.438	48.833	101.855	1.00	29.29
ATOM	7708	O	PHE	E	55	59.195	47.727	101.367	1.00	33.63
ATOM	7709	CB	PHE	E	55	61.622	50.047	102.013	1.00	23.19
ATOM	7710	CG	PHE	E	55	62.128	49.591	100.683	1.00	28.24
ATOM	7711	CD1	PHE	E	55	63.228	48.736	100.598	1.00	27.88
ATOM	7712	CD2	PHE	E	55	61.496	49.998	99.507	1.00	28.94
ATOM	7713	CE1	PHE	E	55	63.694	48.287	99.359	1.00	26.66
ATOM	7714	CE2	PHE	E	55	61.949	49.559	98.262	1.00	31.66
ATOM	7715	CZ	PHE	E	55	63.058	48.695	98.188	1.00	30.51
ATOM	7716	N	ALA	E	56	58.623	49.866	101.689	1.00	31.55
ATOM	7717	CA	ALA	E	56	57.407	49.698	100.891	1.00	32.69
ATOM	7718	C	ALA	E	56	57.381	50.522	99.612	1.00	33.65
ATOM	7719	O	ALA	E	56	57.908	51.638	99.554	1.00	36.35
ATOM	7720	CB	ALA	E	56	56.179	50.025	101.730	1.00	33.30
ATOM	7721	N	MET	E	57	56.771	49.962	98.576	1.00	32.90
ATOM	7722	CA	MET	E	57	56.654	50.665	97.313	1.00	31.99
ATOM	7723	C	MET	E	57	55.186	50.714	97.012	1.00	33.40
ATOM	7724	O	MET	E	57	54.606	49.745	96.519	1.00	32.63
ATOM	7725	CB	MET	E	57	57.405	49.937	96.207	1.00	30.64
ATOM	7726	CG	MET	E	57	58.897	49.945	96.414	1.00	29.63
ATOM	7727	SD	MET	E	57	59.778	48.965	95.214	1.00	31.92
ATOM	7728	CE	MET	E	57	59.870	50.113	93.888	1.00	33.81
ATOM	7729	N	LYS	E	58	54.583	51.846	97.356	1.00	36.59
ATOM	7730	CA	LYS	E	58	53.159	52.052	97.130	1.00	41.55
ATOM	7731	C	LYS	E	58	52.988	52.357	95.661	1.00	40.26
ATOM	7732	O	LYS	E	58	53.398	53.415	95.201	1.00	42.14
ATOM	7733	CB	LYS	E	58	52.648	53.223	97.976	1.00	44.28
ATOM	7734	CG	LYS	E	58	52.907	53.059	99.480	1.00	50.10
ATOM	7735	CD	LYS	E	58	52.587	54.330	100.276	1.00	55.37
ATOM	7736	CE	LYS	E	58	51.084	54.628	100.313	1.00	58.84
ATOM	7737	NZ	LYS	E	58	50.745	55.844	101.119	1.00	55.17
ATOM	7738	N	GLY	E	59	52.408	51.416	94.928	1.00	40.35
ATOM	7739	CA	GLY	E	59	52.195	51.612	93.505	1.00	42.71
ATOM	7740	C	GLY	E	59	53.483	51.820	92.741	1.00	43.98
ATOM	7741	O	GLY	E	59	54.561	51.536	93.257	1.00	43.50
ATOM	7742	N	LYS	E	60	53.372	52.317	91.511	1.00	46.90
ATOM	7743	CA	LYS	E	60	54.538	52.560	90.665	1.00	49.54
ATOM	7744	C	LYS	E	60	55.554	53.453	91.357	1.00	50.18
ATOM	7745	O	LYS	E	60	55.244	54.585	91.726	1.00	52.56
ATOM	7746	CB	LYS	E	60	54.115	53.201	89.341	1.00	50.79
ATOM	7747	CG	LYS	E	60	53.357	52.256	88.408	1.00	56.23
ATOM	7748	CD	LYS	E	60	53.018	52.929	87.084	1.00	59.25

ATOM	7749	CE	LYS	E	60	52.688	51.918	85.993	1.00	60.80
ATOM	7750	NZ	LYS	E	60	51.411	51.200	86.230	1.00	61.08
ATOM	7751	N	LYS	E	61	56.756	52.914	91.549	1.00	48.67
ATOM	7752	CA	LYS	E	61	57.883	53.611	92.173	1.00	47.30
ATOM	7753	C	LYS	E	61	59.099	53.043	91.450	1.00	47.98
ATOM	7754	O	LYS	E	61	58.955	52.194	90.558	1.00	47.18
ATOM	7755	CB	LYS	E	61	58.010	53.271	93.666	1.00	47.10
ATOM	7756	CG	LYS	E	61	56.879	53.743	94.552	1.00	51.79
ATOM	7757	CD	LYS	E	61	56.850	55.258	94.682	1.00	55.40
ATOM	7758	CE	LYS	E	61	58.130	55.797	95.308	1.00	56.72
ATOM	7759	NZ	LYS	E	61	58.202	57.281	95.151	1.00	59.97
ATOM	7760	N	GLU	E	62	60.291	53.480	91.844	1.00	46.14
ATOM	7761	CA	GLU	E	62	61.510	52.983	91.217	1.00	43.77
ATOM	7762	C	GLU	E	62	62.671	53.307	92.152	1.00	42.14
ATOM	7763	O	GLU	E	62	63.440	54.229	91.894	1.00	45.81
ATOM	7764	CB	GLU	E	62	61.694	53.673	89.863	1.00	46.24
ATOM	7765	CG	GLU	E	62	62.609	52.976	88.865	1.00	53.38
ATOM	7766	CD	GLU	E	62	64.001	52.718	89.412	1.00	58.00
ATOM	7767	OE1	GLU	E	62	64.160	51.711	90.133	1.00	59.88
ATOM	7768	OE2	GLU	E	62	64.930	53.519	89.132	1.00	59.31
ATOM	7769	N	ASN	E	63	62.805	52.560	93.244	1.00	38.82
ATOM	7770	CA	ASN	E	63	63.884	52.845	94.186	1.00	37.32
ATOM	7771	C	ASN	E	63	65.182	52.123	93.881	1.00	35.29
ATOM	7772	O	ASN	E	63	65.276	51.376	92.905	1.00	34.21
ATOM	7773	CB	ASN	E	63	63.462	52.521	95.619	1.00	36.41
ATOM	7774	CG	ASN	E	63	62.039	52.862	95.883	1.00	34.97
ATOM	7775	OD1	ASN	E	63	61.176	51.997	95.802	1.00	38.20
ATOM	7776	ND2	ASN	E	63	61.769	54.132	96.188	1.00	30.65
ATOM	7777	N	THR	E	64	66.179	52.337	94.738	1.00	32.08
ATOM	7778	CA	THR	E	64	67.474	51.714	94.534	1.00	32.42
ATOM	7779	C	THR	E	64	67.929	50.796	95.653	1.00	31.23
ATOM	7780	O	THR	E	64	67.778	51.102	96.826	1.00	34.81
ATOM	7781	CB	THR	E	64	68.559	52.781	94.326	1.00	31.91
ATOM	7782	OG1	THR	E	64	68.141	53.704	93.314	1.00	31.56
ATOM	7783	CG2	THR	E	64	69.849	52.136	93.886	1.00	31.09
ATOM	7784	N	LEU	E	65	68.501	49.667	95.285	1.00	29.34
ATOM	7785	CA	LEU	E	65	68.992	48.748	96.283	1.00	29.59
ATOM	7786	C	LEU	E	65	70.497	48.899	96.398	1.00	31.07
ATOM	7787	O	LEU	E	65	71.172	49.064	95.388	1.00	32.54
ATOM	7788	CB	LEU	E	65	68.632	47.318	95.895	1.00	24.60
ATOM	7789	CG	LEU	E	65	67.142	47.081	96.073	1.00	21.68
ATOM	7790	CD1	LEU	E	65	66.793	45.615	95.896	1.00	15.41
ATOM	7791	CD2	LEU	E	65	66.764	47.566	97.453	1.00	21.36
ATOM	7792	N	ARG	E	66	71.027	48.856	97.621	1.00	31.93
ATOM	7793	CA	ARG	E	66	72.479	48.976	97.810	1.00	32.60
ATOM	7794	C	ARG	E	66	73.114	47.736	98.432	1.00	32.05
ATOM	7795	O	ARG	E	66	72.915	47.440	99.618	1.00	29.53
ATOM	7796	CB	ARG	E	66	72.831	50.197	98.661	1.00	33.36
ATOM	7797	CG	ARG	E	66	72.597	51.519	97.953	1.00	38.81
ATOM	7798	CD	ARG	E	66	71.463	52.311	98.597	1.00	44.17
ATOM	7799	NE	ARG	E	66	71.091	53.477	97.803	1.00	43.65
ATOM	7800	CZ	ARG	E	66	71.936	54.429	97.429	1.00	42.92
ATOM	7801	NH1	ARG	E	66	73.210	54.360	97.777	1.00	44.76
ATOM	7802	NH2	ARG	E	66	71.502	55.452	96.708	1.00	44.86
ATOM	7803	N	ILE	E	67	73.874	47.015	97.608	1.00	28.83
ATOM	7804	CA	ILE	E	67	74.550	45.817	98.045	1.00	27.04
ATOM	7805	C	ILE	E	67	75.829	46.252	98.725	1.00	28.62
ATOM	7806	O	ILE	E	67	76.622	46.995	98.151	1.00	29.82
ATOM	7807	CB	ILE	E	67	74.905	44.910	96.871	1.00	27.01
ATOM	7808	CG1	ILE	E	67	73.638	44.351	96.213	1.00	23.88
ATOM	7809	CG2	ILE	E	67	75.788	43.783	97.359	1.00	33.10
ATOM	7810	CD1	ILE	E	67	72.962	45.302	95.299	1.00	22.07

ATOM	7811	N	LEU	E	68	76.036	45.791	99.948	1.00	28.70
ATOM	7812	CA	LEU	E	68	77.220	46.194	100.674	1.00	32.42
ATOM	7813	C	LEU	E	68	78.183	45.051	100.935	1.00	35.94
ATOM	7814	O	LEU	E	68	77.787	43.993	101.431	1.00	35.76
ATOM	7815	CB	LEU	E	68	76.826	46.852	102.004	1.00	33.08
ATOM	7816	CG	LEU	E	68	75.902	48.079	101.984	1.00	32.84
ATOM	7817	CD1	LEU	E	68	75.920	48.705	103.350	1.00	28.42
ATOM	7818	CD2	LEU	E	68	76.362	49.101	100.947	1.00	35.00
ATOM	7819	N	ASP	E	69	79.453	45.280	100.595	1.00	36.90
ATOM	7820	CA	ASP	E	69	80.499	44.294	100.800	1.00	37.16
ATOM	7821	C	ASP	E	69	80.652	44.141	102.304	1.00	35.57
ATOM	7822	O	ASP	E	69	80.801	45.127	103.000	1.00	36.32
ATOM	7823	CB	ASP	E	69	81.793	44.798	100.167	1.00	40.77
ATOM	7824	CG	ASP	E	69	82.939	43.802	100.278	1.00	45.81
ATOM	7825	OD1	ASP	E	69	82.812	42.792	101.008	1.00	48.74
ATOM	7826	OD2	ASP	E	69	83.980	44.046	99.627	1.00	48.77
ATOM	7827	N	ALA	E	70	80.600	42.917	102.809	1.00	35.55
ATOM	7828	CA	ALA	E	70	80.728	42.713	104.242	1.00	40.07
ATOM	7829	C	ALA	E	70	81.877	41.797	104.566	1.00	43.12
ATOM	7830	O	ALA	E	70	82.304	41.727	105.717	1.00	43.91
ATOM	7831	CB	ALA	E	70	79.438	42.138	104.823	1.00	41.33
ATOM	7832	N	THR	E	71	82.369	41.081	103.564	1.00	45.57
ATOM	7833	CA	THR	E	71	83.485	40.184	103.799	1.00	52.56
ATOM	7834	C	THR	E	71	84.805	40.920	103.652	1.00	58.42
ATOM	7835	O	THR	E	71	85.371	40.976	102.557	1.00	61.17
ATOM	7836	CB	THR	E	71	83.479	39.006	102.828	1.00	50.90
ATOM	7837	OG1	THR	E	71	84.676	38.241	103.023	1.00	53.56
ATOM	7838	CG2	THR	E	71	83.392	39.495	101.384	1.00	50.20
ATOM	7839	N	ASN	E	72	85.293	41.492	104.750	1.00	62.69
ATOM	7840	CA	ASN	E	72	86.549	42.228	104.711	1.00	68.26
ATOM	7841	C	ASN	E	72	87.641	41.390	104.070	1.00	68.26
ATOM	7842	O	ASN	E	72	88.384	40.700	104.760	1.00	69.37
ATOM	7843	CB	ASN	E	72	86.966	42.657	106.123	1.00	73.75
ATOM	7844	CG	ASN	E	72	86.294	43.955	106.554	1.00	79.71
ATOM	7845	OD1	ASN	E	72	86.607	44.522	107.611	1.00	81.76
ATOM	7846	ND2	ASN	E	72	85.361	44.435	105.728	1.00	81.28
ATOM	7847	N	ASN	E	73	87.731	41.472	102.745	1.00	68.53
ATOM	7848	CA	ASN	E	73	88.706	40.710	101.970	1.00	69.08
ATOM	7849	C	ASN	E	73	88.965	39.324	102.553	1.00	67.78
ATOM	7850	O	ASN	E	73	90.108	38.869	102.615	1.00	67.90
ATOM	7851	CB	ASN	E	73	90.022	41.480	101.853	1.00	70.64
ATOM	7852	CG	ASN	E	73	90.026	42.442	100.688	1.00	71.42
ATOM	7853	OD1	ASN	E	73	89.238	43.388	100.647	1.00	73.73
ATOM	7854	ND2	ASN	E	73	90.914	42.204	99.727	1.00	69.70
ATOM	7855	N	GLN	E	74	87.897	38.659	102.977	1.00	63.81
ATOM	7856	CA	GLN	E	74	88.018	37.337	103.547	1.00	61.81
ATOM	7857	C	GLN	E	74	87.698	36.310	102.477	1.00	60.22
ATOM	7858	O	GLN	E	74	87.593	35.126	102.761	1.00	61.93
ATOM	7859	CB	GLN	E	74	87.071	37.212	104.743	1.00	65.89
ATOM	7860	CG	GLN	E	74	87.378	38.251	105.844	1.00	74.63
ATOM	7861	CD	GLN	E	74	86.395	38.251	107.025	1.00	77.77
ATOM	7862	OE1	GLN	E	74	86.439	39.144	107.886	1.00	74.92
ATOM	7863	NE2	GLN	E	74	85.513	37.253	107.071	1.00	78.73
ATOM	7864	N	LEU	E	75	87.570	36.779	101.237	1.00	58.90
ATOM	7865	CA	LEU	E	75	87.250	35.931	100.083	1.00	55.54
ATOM	7866	C	LEU	E	75	88.397	35.741	99.094	1.00	56.14
ATOM	7867	O	LEU	E	75	89.377	36.494	99.086	1.00	56.40
ATOM	7868	CB	LEU	E	75	86.083	36.527	99.296	1.00	52.39
ATOM	7869	CG	LEU	E	75	84.631	36.171	99.599	1.00	50.75
ATOM	7870	CD1	LEU	E	75	83.751	37.000	98.682	1.00	47.91
ATOM	7871	CD2	LEU	E	75	84.374	34.687	99.390	1.00	49.53
ATOM	7872	N	PRO	E	76	88.274	34.729	98.226	1.00	54.54

ATOM	7873	CA	PRO	E	76	89.273	34.416	97.205	1.00	53.57
ATOM	7874	C	PRO	E	76	89.529	35.636	96.314	1.00	53.89
ATOM	7875	O	PRO	E	76	88.587	36.188	95.742	1.00	55.47
ATOM	7876	CB	PRO	E	76	88.611	33.286	96.434	1.00	51.04
ATOM	7877	CG	PRO	E	76	87.900	32.555	97.504	1.00	52.51
ATOM	7878	CD	PRO	E	76	87.258	33.667	98.295	1.00	53.58
ATOM	7879	N	GLN	E	77	90.793	36.042	96.190	1.00	51.85
ATOM	7880	CA	GLN	E	77	91.152	37.194	95.368	1.00	50.87
ATOM	7881	C	GLN	E	77	91.675	36.838	93.985	1.00	49.44
ATOM	7882	O	GLN	E	77	92.031	37.726	93.208	1.00	50.86
ATOM	7883	CB	GLN	E	77	92.202	38.053	96.074	1.00	53.47
ATOM	7884	CG	GLN	E	77	91.717	38.723	97.333	1.00	57.92
ATOM	7885	CD	GLN	E	77	90.575	39.684	97.082	1.00	62.41
ATOM	7886	OE1	GLN	E	77	89.997	40.236	98.025	1.00	65.30
ATOM	7887	NE2	GLN	E	77	90.241	39.895	95.810	1.00	63.47
ATOM	7888	N	ASP	E	78	91.726	35.551	93.664	1.00	46.57
ATOM	7889	CA	ASP	E	78	92.227	35.146	92.355	1.00	44.08
ATOM	7890	C	ASP	E	78	91.118	34.726	91.405	1.00	42.69
ATOM	7891	O	ASP	E	78	91.376	34.186	90.329	1.00	40.27
ATOM	7892	CB	ASP	E	78	93.228	33.990	92.496	1.00	43.91
ATOM	7893	CG	ASP	E	78	92.558	32.661	92.771	1.00	40.57
ATOM	7894	OD1	ASP	E	78	91.477	32.640	93.391	1.00	40.04
ATOM	7895	OD2	ASP	E	78	93.125	31.630	92.367	1.00	42.73
ATOM	7896	N	ARG	E	79	89.878	34.983	91.793	1.00	42.70
ATOM	7897	CA	ARG	E	79	88.757	34.574	90.964	1.00	41.42
ATOM	7898	C	ARG	E	79	87.454	35.007	91.592	1.00	39.52
ATOM	7899	O	ARG	E	79	87.421	35.444	92.738	1.00	41.60
ATOM	7900	CB	ARG	E	79	88.740	33.059	90.848	1.00	40.67
ATOM	7901	CG	ARG	E	79	88.334	32.418	92.157	1.00	41.55
ATOM	7902	CD	ARG	E	79	88.678	30.955	92.201	1.00	43.93
ATOM	7903	NE	ARG	E	79	90.056	30.759	92.615	1.00	43.32
ATOM	7904	CZ	ARG	E	79	90.680	29.590	92.571	1.00	46.12
ATOM	7905	NH1	ARG	E	79	90.039	28.516	92.129	1.00	45.51
ATOM	7906	NH2	ARG	E	79	91.947	29.495	92.955	1.00	47.81
ATOM	7907	N	GLU	E	80	86.380	34.843	90.832	1.00	37.92
ATOM	7908	CA	GLU	E	80	85.028	35.189	91.268	1.00	36.34
ATOM	7909	C	GLU	E	80	84.402	34.167	92.241	1.00	34.21
ATOM	7910	O	GLU	E	80	84.695	32.966	92.213	1.00	31.94
ATOM	7911	CB	GLU	E	80	84.101	35.307	90.048	1.00	35.69
ATOM	7912	CG	GLU	E	80	84.219	36.562	89.215	1.00	32.58
ATOM	7913	CD	GLU	E	80	83.327	36.503	87.981	1.00	30.91
ATOM	7914	OE1	GLU	E	80	82.862	35.394	87.647	1.00	29.03
ATOM	7915	OE2	GLU	E	80	83.102	37.552	87.339	1.00	25.24
ATOM	7916	N	SER	E	81	83.525	34.660	93.099	1.00	30.79
ATOM	7917	CA	SER	E	81	82.827	33.799	94.025	1.00	31.07
ATOM	7918	C	SER	E	81	81.349	33.973	93.682	1.00	31.81
ATOM	7919	O	SER	E	81	80.893	35.103	93.454	1.00	33.38
ATOM	7920	CB	SER	E	81	83.115	34.234	95.453	1.00	30.85
ATOM	7921	OG	SER	E	81	84.485	34.073	95.759	1.00	35.56
ATOM	7922	N	LEU	E	82	80.600	32.872	93.618	1.00	28.48
ATOM	7923	CA	LEU	E	82	79.178	32.957	93.275	1.00	24.09
ATOM	7924	C	LEU	E	82	78.270	33.181	94.465	1.00	20.52
ATOM	7925	O	LEU	E	82	78.360	32.487	95.469	1.00	20.32
ATOM	7926	CB	LEU	E	82	78.719	31.692	92.535	1.00	22.65
ATOM	7927	CG	LEU	E	82	77.200	31.424	92.573	1.00	20.15
ATOM	7928	CD1	LEU	E	82	76.415	32.530	91.891	1.00	13.14
ATOM	7929	CD2	LEU	E	82	76.924	30.112	91.910	1.00	16.02
ATOM	7930	N	PHE	E	83	77.389	34.155	94.336	1.00	19.12
ATOM	7931	CA	PHE	E	83	76.444	34.462	95.394	1.00	22.72
ATOM	7932	C	PHE	E	83	75.086	34.629	94.755	1.00	23.30
ATOM	7933	O	PHE	E	83	74.997	34.804	93.539	1.00	23.34
ATOM	7934	CB	PHE	E	83	76.825	35.754	96.116	1.00	24.81

ATOM	7935	CG	PHE	E	83	78.037	35.631	96.983	1.00	27.95
ATOM	7936	CD1	PHE	E	83	79.233	35.156	96.475	1.00	28.80
ATOM	7937	CD2	PHE	E	83	77.995	36.024	98.307	1.00	34.13
ATOM	7938	CE1	PHE	E	83	80.368	35.079	97.274	1.00	27.48
ATOM	7939	CE2	PHE	E	83	79.133	35.951	99.111	1.00	29.45
ATOM	7940	CZ	PHE	E	83	80.312	35.480	98.589	1.00	27.97
ATOM	7941	N	TRP	E	84	74.032	34.564	95.564	1.00	22.02
ATOM	7942	CA	TRP	E	84	72.688	34.731	95.036	1.00	22.50
ATOM	7943	C	TRP	E	84	71.929	35.827	95.744	1.00	22.93
ATOM	7944	O	TRP	E	84	71.771	35.770	96.959	1.00	21.66
ATOM	7945	CB	TRP	E	84	71.913	33.424	95.125	1.00	19.61
ATOM	7946	CG	TRP	E	84	72.533	32.377	94.272	1.00	21.93
ATOM	7947	CD1	TRP	E	84	73.479	31.481	94.641	1.00	21.01
ATOM	7948	CD2	TRP	E	84	72.277	32.144	92.881	1.00	21.97
ATOM	7949	NE1	TRP	E	84	73.832	30.696	93.571	1.00	25.61
ATOM	7950	CE2	TRP	E	84	73.104	31.083	92.479	1.00	23.50
ATOM	7951	CE3	TRP	E	84	71.420	32.727	91.941	1.00	22.75
ATOM	7952	CZ2	TRP	E	84	73.108	30.592	91.174	1.00	26.56
ATOM	7953	CZ3	TRP	E	84	71.422	32.241	90.652	1.00	24.04
ATOM	7954	CH2	TRP	E	84	72.262	31.179	90.278	1.00	26.61
ATOM	7955	N	MET	E	85	71.477	36.830	94.983	1.00	23.17
ATOM	7956	CA	MET	E	85	70.720	37.928	95.569	1.00	22.87
ATOM	7957	C	MET	E	85	69.243	37.720	95.344	1.00	23.37
ATOM	7958	O	MET	E	85	68.813	37.482	94.218	1.00	22.69
ATOM	7959	CB	MET	E	85	71.113	39.280	94.993	1.00	22.01
ATOM	7960	CG	MET	E	85	70.575	40.380	95.870	1.00	20.91
ATOM	7961	SD	MET	E	85	70.954	42.017	95.354	1.00	31.07
ATOM	7962	CE	MET	E	85	69.510	42.856	95.844	1.00	25.42
ATOM	7963	N	ASN	E	86	68.474	37.813	96.429	1.00	23.21
ATOM	7964	CA	ASN	E	86	67.035	37.612	96.382	1.00	21.82
ATOM	7965	C	ASN	E	86	66.295	38.862	96.773	1.00	20.45
ATOM	7966	O	ASN	E	86	66.614	39.463	97.781	1.00	23.12
ATOM	7967	CB	ASN	E	86	66.625	36.484	97.336	1.00	20.24
ATOM	7968	CG	ASN	E	86	67.388	35.192	97.083	1.00	20.57
ATOM	7969	OD1	ASN	E	86	68.589	35.108	97.336	1.00	18.59
ATOM	7970	ND2	ASN	E	86	66.688	34.178	96.583	1.00	17.54
ATOM	7971	N	VAL	E	87	65.315	39.256	95.970	1.00	20.03
ATOM	7972	CA	VAL	E	87	64.488	40.425	96.280	1.00	19.34
ATOM	7973	C	VAL	E	87	63.048	39.918	96.309	1.00	20.69
ATOM	7974	O	VAL	E	87	62.480	39.481	95.296	1.00	21.08
ATOM	7975	CB	VAL	E	87	64.656	41.566	95.226	1.00	19.37
ATOM	7976	CG1	VAL	E	87	63.739	42.726	95.549	1.00	12.92
ATOM	7977	CG2	VAL	E	87	66.099	42.047	95.211	1.00	15.93
ATOM	7978	N	LYS	E	88	62.478	39.940	97.500	1.00	21.17
ATOM	7979	CA	LYS	E	88	61.118	39.456	97.699	1.00	25.05
ATOM	7980	C	LYS	E	88	60.161	40.615	97.826	1.00	26.09
ATOM	7981	O	LYS	E	88	60.470	41.599	98.492	1.00	30.44
ATOM	7982	CB	LYS	E	88	61.039	38.580	98.966	1.00	25.13
ATOM	7983	CG	LYS	E	88	59.712	38.672	99.687	1.00	23.48
ATOM	7984	CD	LYS	E	88	59.675	37.877	100.982	1.00	31.08
ATOM	7985	CE	LYS	E	88	59.483	36.387	100.737	1.00	36.54
ATOM	7986	NZ	LYS	E	88	59.228	35.599	101.985	1.00	33.75
ATOM	7987	N	ALA	E	89	59.004	40.494	97.181	1.00	26.15
ATOM	7988	CA	ALA	E	89	57.976	41.527	97.237	1.00	24.60
ATOM	7989	C	ALA	E	89	56.802	40.967	98.026	1.00	25.32
ATOM	7990	O	ALA	E	89	56.083	40.076	97.569	1.00	23.85
ATOM	7991	CB	ALA	E	89	57.536	41.921	95.833	1.00	19.73
ATOM	7992	N	ILE	E	90	56.617	41.496	99.224	1.00	27.35
ATOM	7993	CA	ILE	E	90	55.547	41.035	100.087	1.00	32.83
ATOM	7994	C	ILE	E	90	54.279	41.879	99.942	1.00	37.35
ATOM	7995	O	ILE	E	90	54.283	43.089	100.177	1.00	42.01
ATOM	7996	CB	ILE	E	90	56.002	41.058	101.561	1.00	30.22

ATOM	7997	CG1	ILE	E	90	57.379	40.411	101.680	1.00	29.76
ATOM	7998	CG2	ILE	E	90	55.021	40.308	102.421	1.00	26.98
ATOM	7999	CD1	ILE	E	90	57.862	40.231	103.095	1.00	26.12
ATOM	8000	N	PRO	E	91	53.176	41.250	99.543	1.00	37.85
ATOM	8001	CA	PRO	E	91	51.898	41.940	99.372	1.00	41.69
ATOM	8002	C	PRO	E	91	51.207	42.113	100.721	1.00	47.19
ATOM	8003	O	PRO	E	91	51.279	41.221	101.577	1.00	49.89
ATOM	8004	CB	PRO	E	91	51.129	40.989	98.476	1.00	40.08
ATOM	8005	CG	PRO	E	91	51.584	39.659	98.979	1.00	36.77
ATOM	8006	CD	PRO	E	91	53.081	39.855	99.094	1.00	37.93
ATOM	8007	N	SER	E	92	50.535	43.243	100.923	1.00	50.34
ATOM	8008	CA	SER	E	92	49.835	43.460	102.191	1.00	52.89
ATOM	8009	C	SER	E	92	48.648	42.517	102.266	1.00	52.99
ATOM	8010	O	SER	E	92	48.230	41.978	101.251	1.00	52.58
ATOM	8011	CB	SER	E	92	49.363	44.910	102.302	1.00	54.21
ATOM	8012	OG	SER	E	92	50.473	45.788	102.401	1.00	57.39
ATOM	8013	N	MET	E	93	48.109	42.303	103.461	1.00	56.72
ATOM	8014	CA	MET	E	93	46.961	41.408	103.608	1.00	61.12
ATOM	8015	C	MET	E	93	45.647	42.157	103.370	1.00	62.29
ATOM	8016	O	MET	E	93	45.495	43.318	103.772	1.00	62.19
ATOM	8017	CB	MET	E	93	46.939	40.756	104.996	1.00	62.21
ATOM	8018	CG	MET	E	93	45.853	39.688	105.137	1.00	68.67
ATOM	8019	SD	MET	E	93	44.654	39.955	106.488	1.00	72.72
ATOM	8020	CE	MET	E	93	45.073	38.575	107.595	1.00	71.24
ATOM	8021	N	ASP	E	94	44.705	41.485	102.712	1.00	62.54
ATOM	8022	CA	ASP	E	94	43.412	42.082	102.405	1.00	64.31
ATOM	8023	C	ASP	E	94	42.427	41.913	103.556	1.00	65.39
ATOM	8024	O	ASP	E	94	41.761	40.882	103.675	1.00	65.64
ATOM	8025	CB	ASP	E	94	42.849	41.450	101.137	1.00	66.05
ATOM	8026	CG	ASP	E	94	41.538	42.065	100.721	1.00	66.63
ATOM	8027	OD1	ASP	E	94	41.000	42.872	101.509	1.00	66.83
ATOM	8028	OD2	ASP	E	94	41.051	41.740	99.616	1.00	65.47
ATOM	8029	N	LYS	E	95	42.325	42.941	104.393	1.00	65.74
ATOM	8030	CA	LYS	E	95	41.444	42.897	105.551	1.00	65.90
ATOM	8031	C	LYS	E	95	39.992	42.551	105.234	1.00	66.72
ATOM	8032	O	LYS	E	95	39.193	42.331	106.142	1.00	65.52
ATOM	8033	CB	LYS	E	95	41.492	44.228	106.302	1.00	65.40
ATOM	8034	CG	LYS	E	95	42.821	44.545	106.971	1.00	65.35
ATOM	8035	CD	LYS	E	95	43.730	45.336	106.041	1.00	70.33
ATOM	8036	CE	LYS	E	95	44.970	45.870	106.762	1.00	69.18
ATOM	8037	NZ	LYS	E	95	45.834	46.655	105.834	1.00	66.67
ATOM	8038	N	SER	E	96	39.650	42.495	103.951	1.00	68.15
ATOM	8039	CA	SER	E	96	38.276	42.182	103.554	1.00	69.93
ATOM	8040	C	SER	E	96	38.006	40.676	103.443	1.00	71.03
ATOM	8041	O	SER	E	96	36.955	40.193	103.878	1.00	72.45
ATOM	8042	CB	SER	E	96	37.937	42.872	102.219	1.00	68.46
ATOM	8043	OG	SER	E	96	38.672	42.346	101.136	1.00	66.33
ATOM	8044	N	LYS	E	97	38.964	39.946	102.876	1.00	70.41
ATOM	8045	CA	LYS	E	97	38.858	38.500	102.673	1.00	70.07
ATOM	8046	C	LYS	E	97	39.275	37.689	103.910	1.00	69.37
ATOM	8047	O	LYS	E	97	39.973	36.683	103.808	1.00	67.32
ATOM	8048	CB	LYS	E	97	39.716	38.110	101.466	1.00	71.29
ATOM	8049	CG	LYS	E	97	39.407	38.910	100.202	1.00	72.27
ATOM	8050	CD	LYS	E	97	38.691	38.067	99.155	1.00	73.79
ATOM	8051	CE	LYS	E	97	38.034	38.938	98.093	1.00	76.81
ATOM	8052	NZ	LYS	E	97	37.049	39.906	98.689	1.00	77.93
ATOM	8053	N	LEU	E	98	38.804	38.128	105.070	1.00	70.44
ATOM	8054	CA	LEU	E	98	39.117	37.516	106.365	1.00	71.50
ATOM	8055	C	LEU	E	98	38.484	36.132	106.621	1.00	71.10
ATOM	8056	O	LEU	E	98	39.178	35.188	107.000	1.00	70.75
ATOM	8057	CB	LEU	E	98	38.705	38.502	107.481	1.00	71.81
ATOM	8058	CG	LEU	E	98	39.626	38.955	108.628	1.00	69.49

ATOM	8059	CD1	LEU	E	98	39.430	38.064	109.826	1.00	68.42
ATOM	8060	CD2	LEU	E	98	41.075	38.968	108.176	1.00	67.78
ATOM	8061	N	THR	E	99	37.172	36.018	106.430	1.00	69.93
ATOM	8062	CA	THR	E	99	36.472	34.752	106.663	1.00	69.10
ATOM	8063	C	THR	E	99	36.578	33.859	105.453	1.00	67.28
ATOM	8064	O	THR	E	99	35.839	32.879	105.322	1.00	64.71
ATOM	8065	CB	THR	E	99	34.981	34.962	106.895	1.00	71.93
ATOM	8066	OG1	THR	E	99	34.423	35.648	105.765	1.00	74.98
ATOM	8067	CG2	THR	E	99	34.742	35.759	108.146	1.00	72.68
ATOM	8068	N	GLU	E	100	37.495	34.212	104.563	1.00	65.93
ATOM	8069	CA	GLU	E	100	37.687	33.461	103.338	1.00	63.97
ATOM	8070	C	GLU	E	100	38.933	32.588	103.339	1.00	60.71
ATOM	8071	O	GLU	E	100	39.886	32.834	104.077	1.00	60.06
ATOM	8072	CB	GLU	E	100	37.764	34.424	102.148	1.00	65.46
ATOM	8073	CG	GLU	E	100	36.514	35.248	101.917	1.00	71.51
ATOM	8074	CD	GLU	E	100	36.680	36.243	100.784	1.00	76.60
ATOM	8075	OE1	GLU	E	100	37.035	35.811	99.666	1.00	80.73
ATOM	8076	OE2	GLU	E	100	36.456	37.456	101.008	1.00	79.81
ATOM	8077	N	ASN	E	101	38.899	31.549	102.514	1.00	55.94
ATOM	8078	CA	ASN	E	101	40.041	30.687	102.357	1.00	52.20
ATOM	8079	C	ASN	E	101	40.807	31.414	101.296	1.00	51.30
ATOM	8080	O	ASN	E	101	40.240	31.766	100.266	1.00	50.79
ATOM	8081	CB	ASN	E	101	39.635	29.331	101.829	1.00	52.37
ATOM	8082	CG	ASN	E	101	39.173	28.422	102.915	1.00	55.18
ATOM	8083	OD1	ASN	E	101	39.329	28.726	104.098	1.00	56.13
ATOM	8084	ND2	ASN	E	101	38.610	27.286	102.533	1.00	54.82
ATOM	8085	N	THR	E	102	42.091	31.648	101.539	1.00	50.91
ATOM	8086	CA	THR	E	102	42.912	32.360	100.574	1.00	47.82
ATOM	8087	C	THR	E	102	44.298	31.741	100.387	1.00	45.35
ATOM	8088	O	THR	E	102	44.730	30.872	101.148	1.00	43.90
ATOM	8089	CB	THR	E	102	43.105	33.821	101.005	1.00	49.31
ATOM	8090	OG1	THR	E	102	44.216	33.907	101.907	1.00	56.58
ATOM	8091	CG2	THR	E	102	41.862	34.340	101.718	1.00	46.20
ATOM	8092	N	LEU	E	103	44.977	32.202	99.345	1.00	43.25
ATOM	8093	CA	LEU	E	103	46.333	31.776	99.035	1.00	41.87
ATOM	8094	C	LEU	E	103	47.023	32.998	98.479	1.00	42.79
ATOM	8095	O	LEU	E	103	46.818	33.333	97.314	1.00	46.40
ATOM	8096	CB	LEU	E	103	46.374	30.698	97.956	1.00	37.30
ATOM	8097	CG	LEU	E	103	47.818	30.437	97.497	1.00	33.55
ATOM	8098	CD1	LEU	E	103	48.594	29.761	98.632	1.00	28.95
ATOM	8099	CD2	LEU	E	103	47.843	29.587	96.243	1.00	28.39
ATOM	8100	N	GLN	E	104	47.832	33.670	99.291	1.00	41.62
ATOM	8101	CA	GLN	E	104	48.533	34.854	98.804	1.00	39.45
ATOM	8102	C	GLN	E	104	49.932	34.492	98.353	1.00	35.95
ATOM	8103	O	GLN	E	104	50.691	33.883	99.111	1.00	37.25
ATOM	8104	CB	GLN	E	104	48.627	35.919	99.892	1.00	42.46
ATOM	8105	CG	GLN	E	104	48.187	37.303	99.441	1.00	46.38
ATOM	8106	CD	GLN	E	104	48.292	38.335	100.553	1.00	52.34
ATOM	8107	OE1	GLN	E	104	47.583	39.344	100.541	1.00	54.42
ATOM	8108	NE2	GLN	E	104	49.187	38.092	101.518	1.00	53.09
ATOM	8109	N	LEU	E	105	50.269	34.860	97.121	1.00	29.55
ATOM	8110	CA	LEU	E	105	51.600	34.584	96.608	1.00	27.18
ATOM	8111	C	LEU	E	105	52.554	35.754	96.873	1.00	24.79
ATOM	8112	O	LEU	E	105	52.119	36.864	97.184	1.00	22.49
ATOM	8113	CB	LEU	E	105	51.546	34.280	95.112	1.00	29.53
ATOM	8114	CG	LEU	E	105	50.909	32.949	94.706	1.00	30.30
ATOM	8115	CD1	LEU	E	105	51.087	32.738	93.205	1.00	22.61
ATOM	8116	CD2	LEU	E	105	51.557	31.813	95.485	1.00	30.17
ATOM	8117	N	ALA	E	106	53.854	35.484	96.760	1.00	21.19
ATOM	8118	CA	ALA	E	106	54.897	36.485	96.985	1.00	20.83
ATOM	8119	C	ALA	E	106	56.039	36.254	95.989	1.00	21.63
ATOM	8120	O	ALA	E	106	56.834	35.311	96.126	1.00	22.01

ATOM	8121	CB	ALA	E	106	55.416	36.384	98.414	1.00	17.40
ATOM	8122	N	ILE	E	107	56.123	37.114	94.983	1.00	19.49
ATOM	8123	CA	ILE	E	107	57.152	36.948	93.971	1.00	17.73
ATOM	8124	C	ILE	E	107	58.517	37.357	94.493	1.00	18.57
ATOM	8125	O	ILE	E	107	58.638	38.295	95.290	1.00	17.12
ATOM	8126	CB	ILE	E	107	56.812	37.749	92.675	1.00	15.89
ATOM	8127	CG1	ILE	E	107	55.684	37.067	91.903	1.00	14.92
ATOM	8128	CG2	ILE	E	107	57.987	37.768	91.751	1.00	9.07
ATOM	8129	CD1	ILE	E	107	54.425	36.890	92.680	1.00	18.92
ATOM	8130	N	ILE	E	108	59.536	36.624	94.048	1.00	15.47
ATOM	8131	CA	ILE	E	108	60.909	36.889	94.440	1.00	16.43
ATOM	8132	C	ILE	E	108	61.798	36.693	93.222	1.00	17.78
ATOM	8133	O	ILE	E	108	61.725	35.675	92.533	1.00	16.35
ATOM	8134	CB	ILE	E	108	61.381	35.912	95.563	1.00	19.37
ATOM	8135	CG1	ILE	E	108	60.478	36.054	96.785	1.00	16.06
ATOM	8136	CG2	ILE	E	108	62.847	36.196	95.965	1.00	17.78
ATOM	8137	CD1	ILE	E	108	60.536	34.880	97.679	1.00	13.59
ATOM	8138	N	SER	E	109	62.640	37.681	92.956	1.00	18.54
ATOM	8139	CA	SER	E	109	63.565	37.596	91.836	1.00	19.19
ATOM	8140	C	SER	E	109	64.885	37.152	92.452	1.00	20.26
ATOM	8141	O	SER	E	109	65.306	37.689	93.479	1.00	21.87
ATOM	8142	CB	SER	E	109	63.731	38.964	91.160	1.00	16.94
ATOM	8143	OG	SER	E	109	62.471	39.547	90.836	1.00	20.87
ATOM	8144	N	ARG	E	110	65.510	36.148	91.854	1.00	18.43
ATOM	8145	CA	ARG	E	110	66.783	35.649	92.338	1.00	17.72
ATOM	8146	C	ARG	E	110	67.807	35.718	91.191	1.00	19.43
ATOM	8147	O	ARG	E	110	67.756	34.958	90.213	1.00	17.49
ATOM	8148	CB	ARG	E	110	66.631	34.216	92.866	1.00	17.13
ATOM	8149	CG	ARG	E	110	67.895	33.397	92.706	1.00	27.17
ATOM	8150	CD	ARG	E	110	67.857	32.076	93.452	1.00	28.53
ATOM	8151	NE	ARG	E	110	67.952	32.297	94.892	1.00	31.57
ATOM	8152	CZ	ARG	E	110	68.766	31.644	95.716	1.00	26.35
ATOM	8153	NH1	ARG	E	110	69.582	30.706	95.267	1.00	21.36
ATOM	8154	NH2	ARG	E	110	68.764	31.945	97.000	1.00	24.61
ATOM	8155	N	ILE	E	111	68.740	36.650	91.333	1.00	18.54
ATOM	8156	CA	ILE	E	111	69.763	36.869	90.337	1.00	17.96
ATOM	8157	C	ILE	E	111	71.173	36.623	90.876	1.00	20.25
ATOM	8158	O	ILE	E	111	71.452	36.859	92.058	1.00	15.73
ATOM	8159	CB	ILE	E	111	69.639	38.286	89.816	1.00	17.91
ATOM	8160	CG1	ILE	E	111	70.031	39.278	90.905	1.00	13.74
ATOM	8161	CG2	ILE	E	111	68.209	38.520	89.378	1.00	17.78
ATOM	8162	CD1	ILE	E	111	69.666	40.695	90.605	1.00	14.97
ATOM	8163	N	LYS	E	112	72.056	36.134	90.004	1.00	20.89
ATOM	8164	CA	LYS	E	112	73.418	35.851	90.408	1.00	21.77
ATOM	8165	C	LYS	E	112	74.164	37.136	90.687	1.00	24.53
ATOM	8166	O	LYS	E	112	73.905	38.169	90.068	1.00	28.08
ATOM	8167	CB	LYS	E	112	74.164	35.101	89.318	1.00	22.34
ATOM	8168	CG	LYS	E	112	73.367	34.046	88.582	1.00	23.23
ATOM	8169	CD	LYS	E	112	74.326	33.165	87.778	1.00	24.42
ATOM	8170	CE	LYS	E	112	73.628	32.522	86.594	1.00	33.04
ATOM	8171	NZ	LYS	E	112	74.545	31.932	85.571	1.00	29.32
ATOM	8172	N	LEU	E	113	75.098	37.056	91.622	1.00	26.19
ATOM	8173	CA	LEU	E	113	75.935	38.181	92.003	1.00	25.60
ATOM	8174	C	LEU	E	113	77.343	37.645	91.996	1.00	25.94
ATOM	8175	O	LEU	E	113	77.648	36.722	92.736	1.00	28.73
ATOM	8176	CB	LEU	E	113	75.604	38.670	93.415	1.00	26.70
ATOM	8177	CG	LEU	E	113	76.686	39.576	94.018	1.00	26.82
ATOM	8178	CD1	LEU	E	113	76.936	40.695	93.048	1.00	34.38
ATOM	8179	CD2	LEU	E	113	76.280	40.165	95.346	1.00	26.20
ATOM	8180	N	TYR	E	114	78.208	38.196	91.161	1.00	25.50
ATOM	8181	CA	TYR	E	114	79.573	37.701	91.160	1.00	27.74
ATOM	8182	C	TYR	E	114	80.496	38.683	91.851	1.00	27.77

ATOM	8183	O	TYR	E	114	80.388	39.892	91.653	1.00	24.89
ATOM	8184	CB	TYR	E	114	80.077	37.457	89.742	1.00	27.42
ATOM	8185	CG	TYR	E	114	79.305	36.418	88.992	1.00	22.92
ATOM	8186	CD1	TYR	E	114	79.498	35.065	89.234	1.00	23.02
ATOM	8187	CD2	TYR	E	114	78.400	36.787	88.015	1.00	22.75
ATOM	8188	CE1	TYR	E	114	78.810	34.108	88.503	1.00	22.25
ATOM	8189	CE2	TYR	E	114	77.709	35.838	87.285	1.00	21.70
ATOM	8190	CZ	TYR	E	114	77.927	34.509	87.527	1.00	20.71
ATOM	8191	OH	TYR	E	114	77.309	33.595	86.730	1.00	23.93
ATOM	8192	N	TYR	E	115	81.386	38.150	92.678	1.00	26.96
ATOM	8193	CA	TYR	E	115	82.348	38.963	93.393	1.00	29.87
ATOM	8194	C	TYR	E	115	83.602	38.949	92.517	1.00	33.12
ATOM	8195	O	TYR	E	115	84.214	37.897	92.304	1.00	35.21
ATOM	8196	CB	TYR	E	115	82.637	38.342	94.756	1.00	27.25
ATOM	8197	CG	TYR	E	115	83.636	39.117	95.557	1.00	26.39
ATOM	8198	CD1	TYR	E	115	83.281	40.308	96.175	1.00	31.90
ATOM	8199	CD2	TYR	E	115	84.949	38.692	95.659	1.00	26.01
ATOM	8200	CE1	TYR	E	115	84.215	41.062	96.881	1.00	33.12
ATOM	8201	CE2	TYR	E	115	85.892	39.433	96.356	1.00	31.23
ATOM	8202	CZ	TYR	E	115	85.524	40.617	96.964	1.00	34.01
ATOM	8203	OH	TYR	E	115	86.468	41.368	97.637	1.00	37.54
ATOM	8204	N	ARG	E	116	83.987	40.107	91.998	1.00	35.53
ATOM	8205	CA	ARG	E	116	85.141	40.136	91.119	1.00	38.70
ATOM	8206	C	ARG	E	116	86.367	40.823	91.673	1.00	40.96
ATOM	8207	O	ARG	E	116	86.472	42.056	91.656	1.00	41.57
ATOM	8208	CB	ARG	E	116	84.762	40.764	89.775	1.00	38.66
ATOM	8209	CG	ARG	E	116	85.816	40.546	88.700	1.00	37.08
ATOM	8210	CD	ARG	E	116	85.273	40.926	87.366	1.00	36.42
ATOM	8211	NE	ARG	E	116	84.144	40.086	86.995	1.00	36.57
ATOM	8212	CZ	ARG	E	116	83.329	40.353	85.984	1.00	39.01
ATOM	8213	NH1	ARG	E	116	83.516	41.439	85.250	1.00	40.59
ATOM	8214	NH2	ARG	E	116	82.336	39.531	85.696	1.00	43.96
ATOM	8215	N	PRO	E	117	87.324	40.024	92.157	1.00	42.93
ATOM	8216	CA	PRO	E	117	88.583	40.502	92.730	1.00	47.22
ATOM	8217	C	PRO	E	117	89.152	41.592	91.822	1.00	51.81
ATOM	8218	O	PRO	E	117	89.417	41.354	90.643	1.00	52.09
ATOM	8219	CB	PRO	E	117	89.445	39.251	92.744	1.00	48.10
ATOM	8220	CG	PRO	E	117	88.447	38.162	92.956	1.00	47.30
ATOM	8221	CD	PRO	E	117	87.313	38.557	92.048	1.00	43.88
ATOM	8222	N	ALA	E	118	89.334	42.785	92.386	1.00	56.34
ATOM	8223	CA	ALA	E	118	89.825	43.955	91.655	1.00	58.96
ATOM	8224	C	ALA	E	118	91.000	43.742	90.699	1.00	59.59
ATOM	8225	O	ALA	E	118	91.137	44.462	89.709	1.00	60.39
ATOM	8226	CB	ALA	E	118	90.155	45.071	92.643	1.00	61.07
ATOM	8227	N	LYS	E	119	91.852	42.769	90.982	1.00	59.30
ATOM	8228	CA	LYS	E	119	92.978	42.535	90.100	1.00	61.18
ATOM	8229	C	LYS	E	119	92.896	41.158	89.500	1.00	62.44
ATOM	8230	O	LYS	E	119	93.016	40.154	90.207	1.00	66.64
ATOM	8231	CB	LYS	E	119	94.296	42.706	90.854	1.00	61.22
ATOM	8232	CG	LYS	E	119	94.582	44.149	91.210	1.00	64.46
ATOM	8233	CD	LYS	E	119	95.774	44.293	92.136	1.00	66.67
ATOM	8234	CE	LYS	E	119	95.851	45.726	92.646	1.00	71.80
ATOM	8235	NZ	LYS	E	119	96.954	45.960	93.620	1.00	75.59
ATOM	8236	N	LEU	E	120	92.666	41.119	88.191	1.00	59.96
ATOM	8237	CA	LEU	E	120	92.570	39.866	87.454	1.00	56.86
ATOM	8238	C	LEU	E	120	93.249	40.088	86.119	1.00	57.64
ATOM	8239	O	LEU	E	120	93.132	41.160	85.527	1.00	58.07
ATOM	8240	CB	LEU	E	120	91.108	39.484	87.233	1.00	53.72
ATOM	8241	CG	LEU	E	120	90.249	39.156	88.460	1.00	50.24
ATOM	8242	CD1	LEU	E	120	88.792	39.059	88.041	1.00	44.75
ATOM	8243	CD2	LEU	E	120	90.723	37.862	89.109	1.00	47.45
ATOM	8244	N	ALA	E	121	93.960	39.077	85.641	1.00	58.67

ATOM	8245	CA	ALA	E	121	94.671	39.196	84.381	1.00	57.33
ATOM	8246	C	ALA	E	121	93.709	39.192	83.212	1.00	58.55
ATOM	8247	O	ALA	E	121	93.290	40.247	82.727	1.00	59.55
ATOM	8248	CB	ALA	E	121	95.662	38.061	84.248	1.00	56.92
ATOM	8249	N	LEU	E	122	93.354	37.993	82.772	1.00	58.68
ATOM	8250	CA	LEU	E	122	92.453	37.809	81.648	1.00	59.58
ATOM	8251	C	LEU	E	122	91.211	38.691	81.748	1.00	59.65
ATOM	8252	O	LEU	E	122	90.393	38.513	82.646	1.00	60.73
ATOM	8253	CB	LEU	E	122	92.020	36.345	81.577	1.00	60.64
ATOM	8254	CG	LEU	E	122	91.568	35.809	80.219	1.00	63.31
ATOM	8255	CD1	LEU	E	122	92.671	34.919	79.667	1.00	66.55
ATOM	8256	CD2	LEU	E	122	90.285	35.010	80.359	1.00	65.95
ATOM	8257	N	PRO	E	123	91.059	39.662	80.832	1.00	59.03
ATOM	8258	CA	PRO	E	123	89.881	40.543	80.862	1.00	57.05
ATOM	8259	C	PRO	E	123	88.584	39.782	80.514	1.00	53.40
ATOM	8260	O	PRO	E	123	88.542	39.011	79.550	1.00	50.70
ATOM	8261	CB	PRO	E	123	90.230	41.626	79.837	1.00	59.90
ATOM	8262	CG	PRO	E	123	91.146	40.907	78.868	1.00	59.90
ATOM	8263	CD	PRO	E	123	92.019	40.094	79.799	1.00	59.62
ATOM	8264	N	PRO	E	124	87.512	40.008	81.298	1.00	50.77
ATOM	8265	CA	PRO	E	124	86.196	39.386	81.149	1.00	49.13
ATOM	8266	C	PRO	E	124	85.658	39.223	79.741	1.00	49.55
ATOM	8267	O	PRO	E	124	85.119	38.175	79.406	1.00	47.36
ATOM	8268	CB	PRO	E	124	85.294	40.258	82.022	1.00	47.72
ATOM	8269	CG	PRO	E	124	86.002	41.548	82.082	1.00	50.26
ATOM	8270	CD	PRO	E	124	87.427	41.120	82.254	1.00	50.45
ATOM	8271	N	ASP	E	125	85.793	40.240	78.904	1.00	53.89
ATOM	8272	CA	ASP	E	125	85.276	40.107	77.548	1.00	59.31
ATOM	8273	C	ASP	E	125	86.061	39.068	76.761	1.00	60.39
ATOM	8274	O	ASP	E	125	85.612	38.609	75.721	1.00	61.46
ATOM	8275	CB	ASP	E	125	85.290	41.457	76.825	1.00	62.70
ATOM	8276	CG	ASP	E	125	86.641	42.123	76.865	1.00	67.90
ATOM	8277	OD1	ASP	E	125	87.354	41.950	77.885	1.00	69.63
ATOM	8278	OD2	ASP	E	125	86.977	42.833	75.887	1.00	70.55
ATOM	8279	N	GLN	E	126	87.219	38.673	77.274	1.00	61.10
ATOM	8280	CA	GLN	E	126	88.033	37.682	76.591	1.00	62.92
ATOM	8281	C	GLN	E	126	88.052	36.347	77.326	1.00	61.85
ATOM	8282	O	GLN	E	126	89.094	35.714	77.425	1.00	64.73
ATOM	8283	CB	GLN	E	126	89.469	38.209	76.446	1.00	69.98
ATOM	8284	CG	GLN	E	126	90.429	37.270	75.691	1.00	75.70
ATOM	8285	CD	GLN	E	126	91.891	37.648	75.868	1.00	79.08
ATOM	8286	OE1	GLN	E	126	92.788	36.830	75.634	1.00	81.20
ATOM	8287	NE2	GLN	E	126	92.138	38.893	76.278	1.00	79.58
ATOM	8288	N	ALA	E	127	86.917	35.897	77.846	1.00	59.68
ATOM	8289	CA	ALA	E	127	86.927	34.629	78.568	1.00	58.06
ATOM	8290	C	ALA	E	127	86.047	33.551	77.950	1.00	58.75
ATOM	8291	O	ALA	E	127	86.386	32.373	77.987	1.00	58.51
ATOM	8292	CB	ALA	E	127	86.543	34.849	80.021	1.00	51.01
ATOM	8293	N	ALA	E	128	84.923	33.942	77.368	1.00	59.64
ATOM	8294	CA	ALA	E	128	84.034	32.960	76.771	1.00	63.14
ATOM	8295	C	ALA	E	128	84.677	32.196	75.615	1.00	67.00
ATOM	8296	O	ALA	E	128	84.017	31.397	74.955	1.00	69.08
ATOM	8297	CB	ALA	E	128	82.765	33.632	76.303	1.00	61.85
ATOM	8298	N	GLU	E	129	85.960	32.445	75.373	1.00	70.31
ATOM	8299	CA	GLU	E	129	86.694	31.779	74.296	1.00	72.35
ATOM	8300	C	GLU	E	129	87.635	30.720	74.848	1.00	71.06
ATOM	8301	O	GLU	E	129	87.974	29.757	74.161	1.00	70.73
ATOM	8302	CB	GLU	E	129	87.538	32.783	73.533	1.00	77.61
ATOM	8303	CG	GLU	E	129	88.576	33.448	74.422	1.00	84.49
ATOM	8304	CD	GLU	E	129	89.679	34.116	73.635	1.00	88.74
ATOM	8305	OE1	GLU	E	129	89.365	34.774	72.615	1.00	90.42
ATOM	8306	OE2	GLU	E	129	90.856	33.992	74.045	1.00	89.79

ATOM	8307	N	LYS	E	130	88.077	30.928	76.082	1.00	68.87
ATOM	8308	CA	LYS	E	130	88.990	30.009	76.743	1.00	67.20
ATOM	8309	C	LYS	E	130	88.250	28.732	77.113	1.00	66.65
ATOM	8310	O	LYS	E	130	88.814	27.839	77.734	1.00	66.79
ATOM	8311	CB	LYS	E	130	89.549	30.653	78.012	1.00	67.94
ATOM	8312	CG	LYS	E	130	89.934	32.124	77.867	1.00	69.69
ATOM	8313	CD	LYS	E	130	91.246	32.310	77.126	1.00	71.93
ATOM	8314	CE	LYS	E	130	91.528	33.785	76.886	1.00	74.04
ATOM	8315	NZ	LYS	E	130	92.823	34.038	76.187	1.00	76.46
ATOM	8316	N	LEU	E	131	86.981	28.651	76.727	1.00	66.22
ATOM	8317	CA	LEU	E	131	86.163	27.487	77.035	1.00	66.86
ATOM	8318	C	LEU	E	131	86.523	26.247	76.224	1.00	70.16
ATOM	8319	O	LEU	E	131	86.154	26.132	75.052	1.00	72.33
ATOM	8320	CB	LEU	E	131	84.685	27.817	76.814	1.00	61.99
ATOM	8321	CG	LEU	E	131	83.702	26.703	77.180	1.00	56.75
ATOM	8322	CD1	LEU	E	131	83.954	26.226	78.603	1.00	52.27
ATOM	8323	CD2	LEU	E	131	82.293	27.225	77.029	1.00	54.79
ATOM	8324	N	ARG	E	132	87.233	25.313	76.847	1.00	72.12
ATOM	8325	CA	ARG	E	132	87.608	24.082	76.160	1.00	75.46
ATOM	8326	C	ARG	E	132	86.643	22.949	76.485	1.00	75.95
ATOM	8327	O	ARG	E	132	85.732	23.109	77.298	1.00	75.78
ATOM	8328	CB	ARG	E	132	89.036	23.671	76.531	1.00	77.08
ATOM	8329	CG	ARG	E	132	90.092	24.503	75.831	1.00	81.73
ATOM	8330	CD	ARG	E	132	91.497	23.965	76.019	1.00	85.63
ATOM	8331	NE	ARG	E	132	92.003	24.195	77.368	1.00	91.31
ATOM	8332	CZ	ARG	E	132	93.228	23.867	77.773	1.00	93.62
ATOM	8333	NH1	ARG	E	132	94.077	23.291	76.927	1.00	92.86
ATOM	8334	NH2	ARG	E	132	93.602	24.113	79.024	1.00	93.17
ATOM	8335	N	PHE	E	133	86.841	21.804	75.840	1.00	76.44
ATOM	8336	CA	PHE	E	133	85.978	20.660	76.075	1.00	77.12
ATOM	8337	C	PHE	E	133	86.692	19.321	76.234	1.00	79.43
ATOM	8338	O	PHE	E	133	87.923	19.237	76.242	1.00	79.87
ATOM	8339	CB	PHE	E	133	84.942	20.555	74.963	1.00	74.12
ATOM	8340	CG	PHE	E	133	84.051	21.745	74.868	1.00	71.16
ATOM	8341	CD1	PHE	E	133	84.524	22.941	74.351	1.00	68.60
ATOM	8342	CD2	PHE	E	133	82.742	21.679	75.326	1.00	71.67
ATOM	8343	CE1	PHE	E	133	83.708	24.057	74.292	1.00	70.01
ATOM	8344	CE2	PHE	E	133	81.910	22.792	75.274	1.00	71.46
ATOM	8345	CZ	PHE	E	133	82.394	23.985	74.755	1.00	71.51
ATOM	8346	N	ARG	E	134	85.880	18.278	76.360	1.00	81.54
ATOM	8347	CA	ARG	E	134	86.339	16.906	76.545	1.00	83.19
ATOM	8348	C	ARG	E	134	85.085	16.025	76.489	1.00	85.66
ATOM	8349	O	ARG	E	134	84.218	16.097	77.370	1.00	87.46
ATOM	8350	CB	ARG	E	134	87.032	16.787	77.899	1.00	80.31
ATOM	8351	CG	ARG	E	134	87.256	15.383	78.384	1.00	80.23
ATOM	8352	CD	ARG	E	134	87.666	15.416	79.851	1.00	83.23
ATOM	8353	NE	ARG	E	134	88.968	16.055	80.056	1.00	81.40
ATOM	8354	CZ	ARG	E	134	89.428	16.452	81.239	1.00	81.12
ATOM	8355	NH1	ARG	E	134	88.695	16.287	82.332	1.00	81.17
ATOM	8356	NH2	ARG	E	134	90.625	17.009	81.330	1.00	81.28
ATOM	8357	N	ARG	E	135	84.988	15.201	75.446	1.00	86.91
ATOM	8358	CA	ARG	E	135	83.820	14.343	75.252	1.00	87.30
ATOM	8359	C	ARG	E	135	83.948	12.853	75.583	1.00	88.79
ATOM	8360	O	ARG	E	135	84.983	12.375	76.069	1.00	88.76
ATOM	8361	CB	ARG	E	135	83.322	14.489	73.816	1.00	83.86
ATOM	8362	CG	ARG	E	135	84.436	14.667	72.820	1.00	82.86
ATOM	8363	CD	ARG	E	135	83.955	14.568	71.383	1.00	84.95
ATOM	8364	NE	ARG	E	135	82.768	15.374	71.113	1.00	85.08
ATOM	8365	CZ	ARG	E	135	81.522	14.975	71.356	1.00	87.77
ATOM	8366	NH1	ARG	E	135	81.290	13.772	71.870	1.00	87.19
ATOM	8367	NH2	ARG	E	135	80.502	15.777	71.078	1.00	88.15
ATOM	8368	N	SER	E	136	82.852	12.144	75.312	1.00	88.85

ATOM	8369	CA	SER E 136	82.713	10.707	75.532	1.00	88.53
ATOM	8370	C	SER E 136	81.326	10.327	75.005	1.00	89.86
ATOM	8371	O	SER E 136	80.551	11.202	74.609	1.00	88.83
ATOM	8372	CB	SER E 136	82.804	10.368	77.029	1.00	86.69
ATOM	8373	OG	SER E 136	84.111	10.547	77.550	1.00	81.91
ATOM	8374	N	ALA E 137	81.019	9.029	74.992	1.00	91.68
ATOM	8375	CA	ALA E 137	79.712	8.540	74.532	1.00	92.15
ATOM	8376	C	ALA E 137	78.731	8.753	75.683	1.00	92.00
ATOM	8377	O	ALA E 137	77.703	8.074	75.799	1.00	91.76
ATOM	8378	CB	ALA E 137	79.797	7.048	74.179	1.00	92.44
ATOM	8379	N	ASN E 138	79.070	9.723	76.526	1.00	90.55
ATOM	8380	CA	ASN E 138	78.288	10.041	77.701	1.00	87.05
ATOM	8381	C	ASN E 138	78.572	11.455	78.204	1.00	85.94
ATOM	8382	O	ASN E 138	77.686	12.303	78.197	1.00	85.38
ATOM	8383	CB	ASN E 138	78.618	9.018	78.782	1.00	87.53
ATOM	8384	CG	ASN E 138	80.102	8.686	78.829	1.00	88.02
ATOM	8385	OD1	ASN E 138	80.922	9.519	79.205	1.00	89.21
ATOM	8386	ND2	ASN E 138	80.452	7.467	78.431	1.00	87.58
ATOM	8387	N	SER E 139	79.810	11.709	78.627	1.00	84.51
ATOM	8388	CA	SER E 139	80.196	13.021	79.153	1.00	81.86
ATOM	8389	C	SER E 139	80.789	14.012	78.154	1.00	79.04
ATOM	8390	O	SER E 139	81.457	13.640	77.196	1.00	79.28
ATOM	8391	CB	SER E 139	81.178	12.855	80.318	1.00	83.18
ATOM	8392	OG	SER E 139	80.554	12.259	81.442	1.00	85.53
ATOM	8393	N	LEU E 140	80.537	15.287	78.418	1.00	76.26
ATOM	8394	CA	LEU E 140	81.014	16.390	77.601	1.00	73.26
ATOM	8395	C	LEU E 140	81.396	17.436	78.638	1.00	71.80
ATOM	8396	O	LEU E 140	80.742	18.469	78.773	1.00	73.34
ATOM	8397	CB	LEU E 140	79.875	16.912	76.718	1.00	73.41
ATOM	8398	CG	LEU E 140	80.242	17.797	75.523	1.00	73.53
ATOM	8399	CD1	LEU E 140	78.975	18.347	74.889	1.00	70.74
ATOM	8400	CD2	LEU E 140	81.140	18.934	75.972	1.00	74.37
ATOM	8401	N	THR E 141	82.454	17.142	79.379	1.00	68.63
ATOM	8402	CA	THR E 141	82.939	18.005	80.450	1.00	66.69
ATOM	8403	C	THR E 141	83.431	19.394	80.044	1.00	64.65
ATOM	8404	O	THR E 141	84.485	19.525	79.417	1.00	64.10
ATOM	8405	CB	THR E 141	84.085	17.321	81.190	1.00	69.19
ATOM	8406	OG1	THR E 141	83.808	15.917	81.298	1.00	69.07
ATOM	8407	CG2	THR E 141	84.260	17.932	82.581	1.00	69.68
ATOM	8408	N	LEU E 142	82.678	20.427	80.423	1.00	60.79
ATOM	8409	CA	LEU E 142	83.056	21.808	80.124	1.00	56.21
ATOM	8410	C	LEU E 142	84.261	22.110	81.006	1.00	55.94
ATOM	8411	O	LEU E 142	84.443	21.462	82.034	1.00	57.30
ATOM	8412	CB	LEU E 142	81.923	22.761	80.491	1.00	51.58
ATOM	8413	CG	LEU E 142	80.576	22.721	79.775	1.00	49.11
ATOM	8414	CD1	LEU E 142	80.497	23.826	78.737	1.00	48.46
ATOM	8415	CD2	LEU E 142	80.371	21.361	79.159	1.00	49.51
ATOM	8416	N	ILE E 143	85.083	23.082	80.625	1.00	53.81
ATOM	8417	CA	ILE E 143	86.248	23.405	81.439	1.00	52.96
ATOM	8418	C	ILE E 143	86.751	24.840	81.283	1.00	53.16
ATOM	8419	O	ILE E 143	87.493	25.169	80.365	1.00	54.01
ATOM	8420	CB	ILE E 143	87.393	22.400	81.171	1.00	51.13
ATOM	8421	CG1	ILE E 143	88.694	22.920	81.772	1.00	47.45
ATOM	8422	CG2	ILE E 143	87.505	22.124	79.689	1.00	51.08
ATOM	8423	CD1	ILE E 143	89.814	21.934	81.710	1.00	53.47
ATOM	8424	N	ASN E 144	86.338	25.680	82.223	1.00	54.26
ATOM	8425	CA	ASN E 144	86.682	27.093	82.251	1.00	54.53
ATOM	8426	C	ASN E 144	87.922	27.339	83.103	1.00	53.53
ATOM	8427	O	ASN E 144	87.892	27.196	84.319	1.00	53.94
ATOM	8428	CB	ASN E 144	85.476	27.869	82.788	1.00	57.67
ATOM	8429	CG	ASN E 144	85.802	29.293	83.139	1.00	63.63
ATOM	8430	OD1	ASN E 144	86.744	29.886	82.601	1.00	66.56

ATOM	8431	ND2	ASN	E	144	85.008	29.868	84.039	1.00	65.97
ATOM	8432	N	PRO	E	145	89.038	27.705	82.460	1.00	52.81
ATOM	8433	CA	PRO	E	145	90.321	27.976	83.111	1.00	51.24
ATOM	8434	C	PRO	E	145	90.483	29.425	83.547	1.00	49.31
ATOM	8435	O	PRO	E	145	91.484	29.790	84.168	1.00	49.39
ATOM	8436	CB	PRO	E	145	91.319	27.604	82.027	1.00	52.52
ATOM	8437	CG	PRO	E	145	90.633	28.158	80.804	1.00	53.10
ATOM	8438	CD	PRO	E	145	89.199	27.681	80.994	1.00	53.18
ATOM	8439	N	THR	E	146	89.503	30.248	83.207	1.00	46.26
ATOM	8440	CA	THR	E	146	89.547	31.659	83.549	1.00	44.61
ATOM	8441	C	THR	E	146	89.054	31.892	84.968	1.00	43.52
ATOM	8442	O	THR	E	146	88.560	30.976	85.626	1.00	44.29
ATOM	8443	CB	THR	E	146	88.657	32.451	82.616	1.00	46.96
ATOM	8444	OG1	THR	E	146	87.284	32.270	82.992	1.00	44.74
ATOM	8445	CG2	THR	E	146	88.835	31.951	81.205	1.00	51.28
ATOM	8446	N	PRO	E	147	89.194	33.125	85.468	1.00	40.91
ATOM	8447	CA	PRO	E	147	88.727	33.397	86.826	1.00	37.88
ATOM	8448	C	PRO	E	147	87.265	33.840	86.895	1.00	37.15
ATOM	8449	O	PRO	E	147	86.796	34.241	87.956	1.00	38.16
ATOM	8450	CB	PRO	E	147	89.686	34.475	87.297	1.00	37.69
ATOM	8451	CG	PRO	E	147	89.947	35.243	86.041	1.00	36.87
ATOM	8452	CD	PRO	E	147	90.144	34.159	85.021	1.00	38.19
ATOM	8453	N	TYR	E	148	86.545	33.761	85.776	1.00	36.44
ATOM	8454	CA	TYR	E	148	85.134	34.160	85.755	1.00	38.24
ATOM	8455	C	TYR	E	148	84.160	32.999	85.625	1.00	39.30
ATOM	8456	O	TYR	E	148	84.517	31.916	85.162	1.00	40.17
ATOM	8457	CB	TYR	E	148	84.853	35.137	84.613	1.00	36.00
ATOM	8458	CG	TYR	E	148	85.833	36.269	84.538	1.00	32.23
ATOM	8459	CD1	TYR	E	148	87.145	36.048	84.121	1.00	28.01
ATOM	8460	CD2	TYR	E	148	85.460	37.557	84.904	1.00	29.65
ATOM	8461	CE1	TYR	E	148	88.054	37.077	84.071	1.00	27.53
ATOM	8462	CE2	TYR	E	148	86.370	38.594	84.861	1.00	29.51
ATOM	8463	CZ	TYR	E	148	87.660	38.349	84.445	1.00	28.09
ATOM	8464	OH	TYR	E	148	88.555	39.384	84.410	1.00	30.15
ATOM	8465	N	TYR	E	149	82.919	33.242	86.027	1.00	38.42
ATOM	8466	CA	TYR	E	149	81.894	32.221	85.953	1.00	37.68
ATOM	8467	C	TYR	E	149	81.267	32.203	84.567	1.00	37.19
ATOM	8468	O	TYR	E	149	80.564	33.135	84.187	1.00	38.74
ATOM	8469	CB	TYR	E	149	80.801	32.484	86.991	1.00	38.29
ATOM	8470	CG	TYR	E	149	80.945	31.734	88.298	1.00	40.02
ATOM	8471	CD1	TYR	E	149	81.738	32.228	89.328	1.00	42.63
ATOM	8472	CD2	TYR	E	149	80.283	30.528	88.504	1.00	42.69
ATOM	8473	CE1	TYR	E	149	81.867	31.544	90.534	1.00	43.32
ATOM	8474	CE2	TYR	E	149	80.410	29.835	89.701	1.00	46.74
ATOM	8475	CZ	TYR	E	149	81.202	30.348	90.713	1.00	44.88
ATOM	8476	OH	TYR	E	149	81.323	29.662	91.901	1.00	46.17
ATOM	8477	N	LEU	E	150	81.498	31.138	83.815	1.00	34.95
ATOM	8478	CA	LEU	E	150	80.917	31.061	82.487	1.00	33.12
ATOM	8479	C	LEU	E	150	79.505	30.511	82.530	1.00	32.32
ATOM	8480	O	LEU	E	150	79.282	29.383	82.981	1.00	31.73
ATOM	8481	CB	LEU	E	150	81.752	30.168	81.576	1.00	33.66
ATOM	8482	CG	LEU	E	150	83.248	30.400	81.444	1.00	34.49
ATOM	8483	CD1	LEU	E	150	83.744	29.490	80.333	1.00	38.66
ATOM	8484	CD2	LEU	E	150	83.557	31.852	81.129	1.00	34.88
ATOM	8485	N	THR	E	151	78.554	31.305	82.054	1.00	30.75
ATOM	8486	CA	THR	E	151	77.166	30.871	82.014	1.00	30.29
ATOM	8487	C	THR	E	151	76.916	30.368	80.602	1.00	30.70
ATOM	8488	O	THR	E	151	76.348	31.075	79.782	1.00	32.86
ATOM	8489	CB	THR	E	151	76.189	32.036	82.342	1.00	31.85
ATOM	8490	OG1	THR	E	151	76.367	32.449	83.708	1.00	33.73
ATOM	8491	CG2	THR	E	151	74.742	31.611	82.132	1.00	25.95
ATOM	8492	N	VAL	E	152	77.370	29.143	80.328	1.00	31.47

ATOM	8493	CA	VAL E 152	77.232	28.480	79.023	1.00	28.09
ATOM	8494	C	VAL E 152	75.790	28.174	78.658	1.00	30.50
ATOM	8495	O	VAL E 152	75.065	27.579	79.435	1.00	32.31
ATOM	8496	CB	VAL E 152	78.000	27.158	79.016	1.00	25.64
ATOM	8497	CG1	VAL E 152	77.685	26.379	77.770	1.00	24.48
ATOM	8498	CG2	VAL E 152	79.490	27.425	79.124	1.00	24.83
ATOM	8499	N	THR E 153	75.381	28.560	77.461	1.00	34.33
ATOM	8500	CA	THR E 153	74.017	28.323	77.022	1.00	37.86
ATOM	8501	C	THR E 153	73.954	28.069	75.519	1.00	43.79
ATOM	8502	O	THR E 153	74.886	28.403	74.781	1.00	45.01
ATOM	8503	CB	THR E 153	73.147	29.519	77.376	1.00	36.63
ATOM	8504	OG1	THR E 153	71.861	29.381	76.767	1.00	36.49
ATOM	8505	CG2	THR E 153	73.808	30.795	76.905	1.00	34.64
ATOM	8506	N	GLU E 154	72.846	27.489	75.062	1.00	48.79
ATOM	8507	CA	GLU E 154	72.683	27.161	73.647	1.00	51.97
ATOM	8508	C	GLU E 154	73.821	26.211	73.235	1.00	54.47
ATOM	8509	O	GLU E 154	74.259	26.200	72.085	1.00	56.65
ATOM	8510	CB	GLU E 154	72.712	28.430	72.781	1.00	50.52
ATOM	8511	CG	GLU E 154	71.471	29.316	72.906	1.00	55.15
ATOM	8512	CD	GLU E 154	71.255	30.229	71.700	1.00	58.77
ATOM	8513	OE1	GLU E 154	71.985	30.083	70.693	1.00	64.01
ATOM	8514	OE2	GLU E 154	70.347	31.088	71.750	1.00	57.04
ATOM	8515	N	LEU E 155	74.294	25.415	74.193	1.00	54.88
ATOM	8516	CA	LEU E 155	75.369	24.454	73.964	1.00	53.82
ATOM	8517	C	LEU E 155	74.836	23.232	73.246	1.00	56.83
ATOM	8518	O	LEU E 155	74.073	22.464	73.819	1.00	57.40
ATOM	8519	CB	LEU E 155	75.972	24.008	75.297	1.00	50.86
ATOM	8520	CG	LEU E 155	77.147	23.025	75.298	1.00	45.35
ATOM	8521	CD1	LEU E 155	78.430	23.757	74.893	1.00	45.73
ATOM	8522	CD2	LEU E 155	77.313	22.430	76.682	1.00	39.74
ATOM	8523	N	ASN E 156	75.246	23.048	71.995	1.00	62.64
ATOM	8524	CA	ASN E 156	74.809	21.897	71.201	1.00	66.43
ATOM	8525	C	ASN E 156	76.010	21.037	70.843	1.00	69.27
ATOM	8526	O	ASN E 156	77.119	21.548	70.647	1.00	67.66
ATOM	8527	CB	ASN E 156	74.149	22.361	69.907	1.00	63.95
ATOM	8528	CG	ASN E 156	73.374	23.634	70.088	1.00	64.52
ATOM	8529	OD1	ASN E 156	72.313	23.651	70.719	1.00	60.36
ATOM	8530	ND2	ASN E 156	73.910	24.725	69.550	1.00	62.47
ATOM	8531	N	ALA E 157	75.790	19.729	70.769	1.00	72.36
ATOM	8532	CA	ALA E 157	76.858	18.818	70.393	1.00	76.45
ATOM	8533	C	ALA E 157	76.792	18.832	68.872	1.00	79.62
ATOM	8534	O	ALA E 157	77.107	17.846	68.200	1.00	81.66
ATOM	8535	CB	ALA E 157	76.577	17.429	70.928	1.00	76.18
ATOM	8536	N	GLY E 158	76.377	19.984	68.347	1.00	81.93
ATOM	8537	CA	GLY E 158	76.224	20.156	66.917	1.00	81.88
ATOM	8538	C	GLY E 158	74.953	19.433	66.538	1.00	82.24
ATOM	8539	O	GLY E 158	73.924	20.046	66.254	1.00	82.21
ATOM	8540	N	THR E 159	75.030	18.110	66.549	1.00	82.07
ATOM	8541	CA	THR E 159	73.884	17.295	66.222	1.00	82.60
ATOM	8542	C	THR E 159	72.813	17.676	67.237	1.00	83.29
ATOM	8543	O	THR E 159	72.029	18.605	67.029	1.00	82.82
ATOM	8544	CB	THR E 159	74.221	15.790	66.366	1.00	82.48
ATOM	8545	OG1	THR E 159	75.554	15.549	65.899	1.00	79.80
ATOM	8546	CG2	THR E 159	73.249	14.942	65.547	1.00	81.96
ATOM	8547	N	ARG E 160	72.820	16.961	68.353	1.00	84.10
ATOM	8548	CA	ARG E 160	71.867	17.164	69.432	1.00	84.81
ATOM	8549	C	ARG E 160	72.159	18.476	70.186	1.00	84.50
ATOM	8550	O	ARG E 160	73.289	18.982	70.168	1.00	84.54
ATOM	8551	CB	ARG E 160	71.970	15.962	70.385	1.00	86.28
ATOM	8552	CG	ARG E 160	70.783	15.714	71.305	1.00	88.59
ATOM	8553	CD	ARG E 160	69.587	15.159	70.548	1.00	92.10
ATOM	8554	NE	ARG E 160	68.546	14.670	71.451	1.00	94.47

ATOM	8555	CZ	ARG	E	160	67.910	15.414	72.352	1.00	93.31
ATOM	8556	NH1	ARG	E	160	68.200	16.701	72.484	1.00	90.89
ATOM	8557	NH2	ARG	E	160	66.983	14.866	73.130	1.00	93.66
ATOM	8558	N	VAL	E	161	71.130	19.029	70.827	1.00	83.12
ATOM	8559	CA	VAL	E	161	71.272	20.246	71.635	1.00	80.76
ATOM	8560	C	VAL	E	161	71.749	19.755	73.011	1.00	79.38
ATOM	8561	O	VAL	E	161	72.103	18.586	73.153	1.00	80.36
ATOM	8562	CB	VAL	E	161	69.915	20.984	71.798	1.00	79.70
ATOM	8563	CG1	VAL	E	161	68.956	20.156	72.649	1.00	77.36
ATOM	8564	CG2	VAL	E	161	70.139	22.349	72.418	1.00	78.00
ATOM	8565	N	LEU	E	162	71.758	20.612	74.026	1.00	76.21
ATOM	8566	CA	LEU	E	162	72.207	20.158	75.337	1.00	73.02
ATOM	8567	C	LEU	E	162	71.730	20.967	76.527	1.00	71.38
ATOM	8568	O	LEU	E	162	70.956	21.918	76.395	1.00	71.84
ATOM	8569	CB	LEU	E	162	73.730	20.071	75.371	1.00	73.62
ATOM	8570	CG	LEU	E	162	74.345	18.907	74.594	1.00	74.37
ATOM	8571	CD1	LEU	E	162	75.860	19.004	74.601	1.00	74.33
ATOM	8572	CD2	LEU	E	162	73.878	17.597	75.215	1.00	74.49
ATOM	8573	N	GLU	E	163	72.215	20.572	77.699	1.00	68.30
ATOM	8574	CA	GLU	E	163	71.850	21.216	78.953	1.00	64.11
ATOM	8575	C	GLU	E	163	72.737	22.416	79.254	1.00	60.48
ATOM	8576	O	GLU	E	163	73.968	22.289	79.276	1.00	58.79
ATOM	8577	CB	GLU	E	163	71.965	20.203	80.095	1.00	65.72
ATOM	8578	CG	GLU	E	163	71.069	20.498	81.275	1.00	67.87
ATOM	8579	CD	GLU	E	163	69.606	20.561	80.875	1.00	71.47
ATOM	8580	OE1	GLU	E	163	69.249	21.444	80.060	1.00	73.61
ATOM	8581	OE2	GLU	E	163	68.816	19.725	81.369	1.00	70.22
ATOM	8582	N	ASN	E	164	72.122	23.576	79.487	1.00	54.96
ATOM	8583	CA	ASN	E	164	72.890	24.773	79.814	1.00	51.78
ATOM	8584	C	ASN	E	164	73.871	24.444	80.940	1.00	50.12
ATOM	8585	O	ASN	E	164	73.777	23.395	81.562	1.00	52.46
ATOM	8586	CB	ASN	E	164	71.972	25.895	80.283	1.00	52.19
ATOM	8587	CG	ASN	E	164	71.166	26.498	79.169	1.00	49.82
ATOM	8588	OD1	ASN	E	164	71.712	26.944	78.164	1.00	52.14
ATOM	8589	ND2	ASN	E	164	69.856	26.536	79.348	1.00	52.45
ATOM	8590	N	ALA	E	165	74.803	25.338	81.227	1.00	46.63
ATOM	8591	CA	ALA	E	165	75.756	25.051	82.281	1.00	43.35
ATOM	8592	C	ALA	E	165	76.317	26.302	82.904	1.00	42.95
ATOM	8593	O	ALA	E	165	76.345	27.360	82.280	1.00	43.93
ATOM	8594	CB	ALA	E	165	76.884	24.208	81.737	1.00	40.24
ATOM	8595	N	LEU	E	166	76.741	26.184	84.153	1.00	40.17
ATOM	8596	CA	LEU	E	166	77.347	27.306	84.828	1.00	38.85
ATOM	8597	C	LEU	E	166	78.706	26.759	85.212	1.00	39.24
ATOM	8598	O	LEU	E	166	78.852	26.090	86.225	1.00	40.63
ATOM	8599	CB	LEU	E	166	76.531	27.705	86.053	1.00	35.99
ATOM	8600	CG	LEU	E	166	77.169	28.786	86.940	1.00	36.90
ATOM	8601	CD1	LEU	E	166	77.606	29.995	86.127	1.00	28.41
ATOM	8602	CD2	LEU	E	166	76.173	29.178	88.004	1.00	37.39
ATOM	8603	N	VAL	E	167	79.708	27.016	84.382	1.00	39.33
ATOM	8604	CA	VAL	E	167	81.019	26.480	84.674	1.00	39.26
ATOM	8605	C	VAL	E	167	81.848	27.412	85.518	1.00	39.47
ATOM	8606	O	VAL	E	167	82.305	28.464	85.060	1.00	37.12
ATOM	8607	CB	VAL	E	167	81.797	26.143	83.396	1.00	40.20
ATOM	8608	CG1	VAL	E	167	82.991	25.269	83.750	1.00	42.20
ATOM	8609	CG2	VAL	E	167	80.891	25.435	82.400	1.00	38.27
ATOM	8610	N	PRO	E	168	82.058	27.021	86.776	1.00	41.22
ATOM	8611	CA	PRO	E	168	82.834	27.769	87.766	1.00	44.63
ATOM	8612	C	PRO	E	168	84.258	28.094	87.310	1.00	47.19
ATOM	8613	O	PRO	E	168	84.861	27.362	86.522	1.00	49.91
ATOM	8614	CB	PRO	E	168	82.810	26.851	88.984	1.00	44.60
ATOM	8615	CG	PRO	E	168	82.681	25.473	88.376	1.00	44.33
ATOM	8616	CD	PRO	E	168	81.649	25.711	87.309	1.00	42.14

ATOM	8617	N	PRO	E	169	84.816	29.204	87.807	1.00	47.27
ATOM	8618	CA	PRO	E	169	86.172	29.613	87.440	1.00	47.19
ATOM	8619	C	PRO	E	169	87.197	28.504	87.677	1.00	46.65
ATOM	8620	O	PRO	E	169	87.157	27.812	88.683	1.00	46.66
ATOM	8621	CB	PRO	E	169	86.418	30.821	88.345	1.00	48.29
ATOM	8622	CG	PRO	E	169	85.046	31.391	88.521	1.00	47.99
ATOM	8623	CD	PRO	E	169	84.226	30.150	88.767	1.00	47.42
ATOM	8624	N	MET	E	170	88.114	28.336	86.742	1.00	47.77
ATOM	8625	CA	MET	E	170	89.148	27.330	86.891	1.00	47.44
ATOM	8626	C	MET	E	170	88.582	25.999	87.365	1.00	47.13
ATOM	8627	O	MET	E	170	89.165	25.325	88.205	1.00	45.76
ATOM	8628	CB	MET	E	170	90.178	27.845	87.874	1.00	44.62
ATOM	8629	CG	MET	E	170	90.569	29.258	87.571	1.00	48.97
ATOM	8630	SD	MET	E	170	91.972	29.783	88.540	1.00	65.57
ATOM	8631	CE	MET	E	170	91.204	30.932	89.690	1.00	60.97
ATOM	8632	N	GLY	E	171	87.439	25.623	86.817	1.00	47.39
ATOM	8633	CA	GLY	E	171	86.831	24.373	87.206	1.00	50.66
ATOM	8634	C	GLY	E	171	86.058	23.840	86.032	1.00	53.97
ATOM	8635	O	GLY	E	171	86.012	24.474	84.984	1.00	55.28
ATOM	8636	N	GLU	E	172	85.437	22.682	86.207	1.00	56.83
ATOM	8637	CA	GLU	E	172	84.680	22.068	85.134	1.00	58.29
ATOM	8638	C	GLU	E	172	83.213	21.951	85.502	1.00	58.89
ATOM	8639	O	GLU	E	172	82.785	22.402	86.558	1.00	59.72
ATOM	8640	CB	GLU	E	172	85.235	20.673	84.846	1.00	62.02
ATOM	8641	CG	GLU	E	172	86.759	20.568	84.909	1.00	65.24
ATOM	8642	CD	GLU	E	172	87.251	19.150	84.671	1.00	67.89
ATOM	8643	OE1	GLU	E	172	86.623	18.217	85.223	1.00	68.35
ATOM	8644	OE2	GLU	E	172	88.263	18.970	83.948	1.00	65.75
ATOM	8645	N	SER	E	173	82.456	21.330	84.608	1.00	59.87
ATOM	8646	CA	SER	E	173	81.033	21.098	84.779	1.00	61.58
ATOM	8647	C	SER	E	173	80.693	20.079	83.712	1.00	64.19
ATOM	8648	O	SER	E	173	80.805	20.358	82.517	1.00	66.20
ATOM	8649	CB	SER	E	173	80.227	22.378	84.540	1.00	60.49
ATOM	8650	OG	SER	E	173	80.650	23.425	85.393	1.00	66.26
ATOM	8651	N	THR	E	174	80.305	18.886	84.136	1.00	20.00
ATOM	8652	CG2	THR	E	174	81.391	16.170	84.461	1.00	20.00
ATOM	8653	OG1	THR	E	174	79.067	16.398	84.898	1.00	20.00
ATOM	8654	CB	THR	E	174	80.022	16.470	83.853	1.00	20.00
ATOM	8655	CA	THR	E	174	79.958	17.849	83.186	1.00	20.00
ATOM	8656	C	THR	E	174	78.540	18.068	82.653	1.00	20.00
ATOM	8657	O	THR	E	174	77.725	18.736	83.285	1.00	20.00
ATOM	8658	N	VAL	E	175	78.265	17.511	81.482	1.00	71.20
ATOM	8659	CA	VAL	E	175	76.955	17.605	80.844	1.00	74.45
ATOM	8660	C	VAL	E	175	76.750	16.285	80.100	1.00	77.33
ATOM	8661	O	VAL	E	175	77.692	15.773	79.495	1.00	79.92
ATOM	8662	CB	VAL	E	175	76.921	18.746	79.818	1.00	73.32
ATOM	8663	CG1	VAL	E	175	75.514	18.911	79.259	1.00	75.29
ATOM	8664	CG2	VAL	E	175	77.404	20.018	80.460	1.00	74.62
ATOM	8665	N	LYS	E	176	75.543	15.728	80.130	1.00	77.41
ATOM	8666	CA	LYS	E	176	75.320	14.469	79.429	1.00	78.14
ATOM	8667	C	LYS	E	176	75.561	14.653	77.935	1.00	80.04
ATOM	8668	O	LYS	E	176	75.355	15.739	77.392	1.00	80.63
ATOM	8669	CB	LYS	E	176	73.905	13.951	79.680	1.00	77.67
ATOM	8670	CG	LYS	E	176	73.634	13.577	81.127	1.00	80.91
ATOM	8671	CD	LYS	E	176	73.636	14.812	82.041	1.00	85.60
ATOM	8672	CE	LYS	E	176	74.653	14.694	83.181	1.00	85.02
ATOM	8673	NZ	LYS	E	176	74.330	13.587	84.129	1.00	83.40
ATOM	8674	N	LEU	E	177	76.006	13.587	77.276	1.00	81.94
ATOM	8675	CA	LEU	E	177	76.296	13.617	75.846	1.00	84.23
ATOM	8676	C	LEU	E	177	75.528	12.487	75.153	1.00	87.66
ATOM	8677	O	LEU	E	177	75.995	11.346	75.087	1.00	88.32
ATOM	8678	CB	LEU	E	177	77.804	13.462	75.639	1.00	81.22

ATOM	8679	CG	LEU	E	177	78.447	13.963	74.351	1.00	78.15
ATOM	8680	CD1	LEU	E	177	77.974	15.367	74.038	1.00	76.32
ATOM	8681	CD2	LEU	E	177	79.953	13.932	74.514	1.00	76.71
ATOM	8682	N	PRO	E	178	74.328	12.801	74.628	1.00	91.21
ATOM	8683	CA	PRO	E	178	73.403	11.898	73.929	1.00	94.43
ATOM	8684	C	PRO	E	178	73.722	11.507	72.483	1.00	96.98
ATOM	8685	O	PRO	E	178	73.006	11.910	71.562	1.00	97.40
ATOM	8686	CB	PRO	E	178	72.080	12.643	74.026	1.00	94.05
ATOM	8687	CG	PRO	E	178	72.514	14.055	73.858	1.00	94.10
ATOM	8688	CD	PRO	E	178	73.721	14.137	74.777	1.00	91.90
ATOM	8689	N	SER	E	179	74.774	10.707	72.302	1.00	99.95
ATOM	8690	CA	SER	E	179	75.220	10.214	70.987	1.00	102.57
ATOM	8691	C	SER	E	179	75.278	11.244	69.848	1.00	103.01
ATOM	8692	O	SER	E	179	76.361	11.542	69.331	1.00	103.03
ATOM	8693	CB	SER	E	179	74.356	9.020	70.562	1.00	103.31
ATOM	8694	OG	SER	E	179	74.527	7.927	71.455	1.00	104.89
ATOM	8695	N	ASP	E	180	74.116	11.759	69.449	1.00	102.83
ATOM	8696	CA	ASP	E	180	74.025	12.764	68.393	1.00	101.94
ATOM	8697	C	ASP	E	180	74.998	13.879	68.759	1.00	101.01
ATOM	8698	O	ASP	E	180	74.606	14.870	69.380	1.00	99.46
ATOM	8699	CB	ASP	E	180	72.612	13.358	68.331	1.00	103.88
ATOM	8700	CG	ASP	E	180	71.518	12.314	68.496	1.00	105.13
ATOM	8701	OD1	ASP	E	180	71.831	11.105	68.541	1.00	106.88
ATOM	8702	OD2	ASP	E	180	70.336	12.712	68.581	1.00	103.15
ATOM	8703	N	ALA	E	181	76.260	13.722	68.376	1.00	100.13
ATOM	8704	CA	ALA	E	181	77.262	14.723	68.699	1.00	99.60
ATOM	8705	C	ALA	E	181	78.216	14.985	67.551	1.00	98.72
ATOM	8706	O	ALA	E	181	78.178	16.042	66.920	1.00	98.56
ATOM	8707	CB	ALA	E	181	78.046	14.286	69.928	1.00	99.45
ATOM	8708	N	GLY	E	182	79.077	14.011	67.290	1.00	98.59
ATOM	8709	CA	GLY	E	182	80.054	14.156	66.230	1.00	97.61
ATOM	8710	C	GLY	E	182	81.272	14.896	66.751	1.00	96.11
ATOM	8711	O	GLY	E	182	82.294	14.281	67.067	1.00	95.06
ATOM	8712	N	SER	E	183	81.154	16.216	66.855	1.00	94.85
ATOM	8713	CA	SER	E	183	82.246	17.052	67.338	1.00	92.76
ATOM	8714	C	SER	E	183	81.943	18.520	67.116	1.00	91.07
ATOM	8715	O	SER	E	183	82.657	19.385	67.622	1.00	91.23
ATOM	8716	CB	SER	E	183	83.544	16.703	66.607	1.00	93.89
ATOM	8717	OG	SER	E	183	84.548	17.668	66.868	1.00	95.71
ATOM	8718	N	ASN	E	184	80.884	18.803	66.363	1.00	88.48
ATOM	8719	CA	ASN	E	184	80.534	20.185	66.064	1.00	85.76
ATOM	8720	C	ASN	E	184	79.921	20.950	67.232	1.00	82.74
ATOM	8721	O	ASN	E	184	78.705	21.122	67.308	1.00	79.97
ATOM	8722	CB	ASN	E	184	79.591	20.246	64.862	1.00	87.53
ATOM	8723	CG	ASN	E	184	79.431	21.658	64.325	1.00	89.28
ATOM	8724	OD1	ASN	E	184	80.422	22.355	64.073	1.00	89.17
ATOM	8725	ND2	ASN	E	184	78.184	22.088	64.144	1.00	89.79
ATOM	8726	N	ILE	E	185	80.775	21.430	68.132	1.00	79.56
ATOM	8727	CA	ILE	E	185	80.300	22.183	69.283	1.00	76.30
ATOM	8728	C	ILE	E	185	79.911	23.619	68.941	1.00	74.68
ATOM	8729	O	ILE	E	185	80.653	24.353	68.284	1.00	73.41
ATOM	8730	CB	ILE	E	185	81.341	22.212	70.416	1.00	74.43
ATOM	8731	CG1	ILE	E	185	81.556	20.796	70.968	1.00	73.61
ATOM	8732	CG2	ILE	E	185	80.891	23.179	71.497	1.00	74.78
ATOM	8733	CD1	ILE	E	185	80.279	19.992	71.168	1.00	71.93
ATOM	8734	N	THR	E	186	78.735	24.006	69.419	1.00	72.33
ATOM	8735	CA	THR	E	186	78.199	25.334	69.181	1.00	68.02
ATOM	8736	C	THR	E	186	77.560	25.847	70.467	1.00	65.61
ATOM	8737	O	THR	E	186	76.496	25.374	70.867	1.00	66.22
ATOM	8738	CB	THR	E	186	77.135	25.272	68.097	1.00	66.81
ATOM	8739	OG1	THR	E	186	77.452	24.201	67.203	1.00	65.91
ATOM	8740	CG2	THR	E	186	77.087	26.574	67.324	1.00	64.65

ATOM	8741	N	TYR	E	187	78.205	26.816	71.109	1.00	61.32
ATOM	8742	CA	TYR	E	187	77.680	27.369	72.348	1.00	58.52
ATOM	8743	C	TYR	E	187	77.726	28.897	72.360	1.00	56.89
ATOM	8744	O	TYR	E	187	78.413	29.517	71.542	1.00	56.96
ATOM	8745	CB	TYR	E	187	78.486	26.833	73.523	1.00	57.55
ATOM	8746	CG	TYR	E	187	79.845	27.471	73.631	1.00	56.83
ATOM	8747	CD1	TYR	E	187	80.921	26.986	72.904	1.00	57.34
ATOM	8748	CD2	TYR	E	187	80.052	28.576	74.448	1.00	57.02
ATOM	8749	CE1	TYR	E	187	82.174	27.588	72.990	1.00	56.57
ATOM	8750	CE2	TYR	E	187	81.301	29.182	74.540	1.00	55.77
ATOM	8751	CZ	TYR	E	187	82.353	28.680	73.812	1.00	54.69
ATOM	8752	OH	TYR	E	187	83.591	29.255	73.928	1.00	56.48
ATOM	8753	N	ARG	E	188	76.991	29.486	73.304	1.00	54.27
ATOM	8754	CA	ARG	E	188	76.920	30.940	73.487	1.00	50.09
ATOM	8755	C	ARG	E	188	76.897	31.211	74.988	1.00	45.49
ATOM	8756	O	ARG	E	188	76.338	30.424	75.742	1.00	46.18
ATOM	8757	CB	ARG	E	188	75.633	31.499	72.868	1.00	52.57
ATOM	8758	CG	ARG	E	188	75.442	31.185	71.399	1.00	53.61
ATOM	8759	CD	ARG	E	188	74.100	31.686	70.893	1.00	53.58
ATOM	8760	NE	ARG	E	188	73.986	33.136	70.969	1.00	54.44
ATOM	8761	CZ	ARG	E	188	74.792	33.971	70.329	1.00	52.09
ATOM	8762	NH1	ARG	E	188	75.761	33.490	69.577	1.00	52.47
ATOM	8763	NH2	ARG	E	188	74.631	35.279	70.437	1.00	51.28
ATOM	8764	N	THR	E	189	77.486	32.311	75.432	1.00	38.94
ATOM	8765	CA	THR	E	189	77.464	32.595	76.860	1.00	37.02
ATOM	8766	C	THR	E	189	76.733	33.882	77.190	1.00	37.70
ATOM	8767	O	THR	E	189	76.550	34.736	76.329	1.00	40.43
ATOM	8768	CB	THR	E	189	78.849	32.724	77.423	1.00	33.67
ATOM	8769	OG1	THR	E	189	79.465	33.880	76.847	1.00	38.19
ATOM	8770	CG2	THR	E	189	79.660	31.479	77.130	1.00	28.06
ATOM	8771	N	ILE	E	190	76.321	34.024	78.447	1.00	36.54
ATOM	8772	CA	ILE	E	190	75.618	35.220	78.878	1.00	34.82
ATOM	8773	C	ILE	E	190	76.627	36.158	79.527	1.00	36.94
ATOM	8774	O	ILE	E	190	77.298	35.772	80.486	1.00	39.45
ATOM	8775	CB	ILE	E	190	74.499	34.849	79.847	1.00	30.65
ATOM	8776	CG1	ILE	E	190	73.483	33.984	79.107	1.00	25.79
ATOM	8777	CG2	ILE	E	190	73.829	36.093	80.386	1.00	31.99
ATOM	8778	CD1	ILE	E	190	72.295	33.566	79.937	1.00	26.79
ATOM	8779	N	ASN	E	191	76.745	37.377	78.993	1.00	36.27
ATOM	8780	CA	ASN	E	191	77.717	38.352	79.504	1.00	37.00
ATOM	8781	C	ASN	E	191	77.257	39.248	80.660	1.00	35.29
ATOM	8782	O	ASN	E	191	76.074	39.287	81.007	1.00	34.56
ATOM	8783	CB	ASN	E	191	78.223	39.249	78.364	1.00	39.49
ATOM	8784	CG	ASN	E	191	77.169	40.233	77.883	1.00	41.41
ATOM	8785	OD1	ASN	E	191	76.598	40.985	78.666	1.00	41.20
ATOM	8786	ND2	ASN	E	191	76.909	40.231	76.587	1.00	46.96
ATOM	8787	N	ASP	E	192	78.220	39.979	81.222	1.00	30.96
ATOM	8788	CA	ASP	E	192	77.994	40.894	82.336	1.00	29.30
ATOM	8789	C	ASP	E	192	76.745	41.763	82.245	1.00	28.53
ATOM	8790	O	ASP	E	192	76.300	42.323	83.246	1.00	28.88
ATOM	8791	CB	ASP	E	192	79.210	41.803	82.519	1.00	30.79
ATOM	8792	CG	ASP	E	192	80.386	41.090	83.168	1.00	35.69
ATOM	8793	OD1	ASP	E	192	80.211	39.940	83.627	1.00	41.64
ATOM	8794	OD2	ASP	E	192	81.486	41.681	83.229	1.00	36.89
ATOM	8795	N	TYR	E	193	76.166	41.869	81.058	1.00	28.82
ATOM	8796	CA	TYR	E	193	74.983	42.700	80.883	1.00	29.42
ATOM	8797	C	TYR	E	193	73.753	41.880	80.571	1.00	31.19
ATOM	8798	O	TYR	E	193	72.725	42.416	80.148	1.00	33.50
ATOM	8799	CB	TYR	E	193	75.247	43.732	79.792	1.00	25.42
ATOM	8800	CG	TYR	E	193	76.537	44.451	80.044	1.00	24.16
ATOM	8801	CD1	TYR	E	193	76.681	45.274	81.149	1.00	26.26
ATOM	8802	CD2	TYR	E	193	77.638	44.260	79.224	1.00	24.96

ATOM	8803	CE1	TYR	E	193	77.886	45.887	81.432	1.00	28.70
ATOM	8804	CE2	TYR	E	193	78.859	44.872	79.498	1.00	23.63
ATOM	8805	CZ	TYR	E	193	78.976	45.687	80.604	1.00	26.21
ATOM	8806	OH	TYR	E	193	80.166	46.330	80.889	1.00	26.65
ATOM	8807	N	GLY	E	194	73.875	40.574	80.795	1.00	31.28
ATOM	8808	CA	GLY	E	194	72.766	39.662	80.583	1.00	34.25
ATOM	8809	C	GLY	E	194	72.423	39.493	79.126	1.00	35.63
ATOM	8810	O	GLY	E	194	71.306	39.102	78.770	1.00	32.74
ATOM	8811	N	ALA	E	195	73.409	39.794	78.288	1.00	37.61
ATOM	8812	CA	ALA	E	195	73.266	39.690	76.849	1.00	37.74
ATOM	8813	C	ALA	E	195	74.096	38.525	76.310	1.00	37.68
ATOM	8814	O	ALA	E	195	75.192	38.236	76.801	1.00	35.15
ATOM	8815	CB	ALA	E	195	73.699	40.992	76.210	1.00	41.15
ATOM	8816	N	LEU	E	196	73.543	37.852	75.307	1.00	37.94
ATOM	8817	CA	LEU	E	196	74.194	36.714	74.667	1.00	39.61
ATOM	8818	C	LEU	E	196	75.426	37.137	73.899	1.00	42.22
ATOM	8819	O	LEU	E	196	75.447	38.210	73.300	1.00	43.01
ATOM	8820	CB	LEU	E	196	73.245	36.061	73.672	1.00	34.83
ATOM	8821	CG	LEU	E	196	72.241	35.041	74.168	1.00	34.52
ATOM	8822	CD1	LEU	E	196	70.902	35.232	73.472	1.00	31.67
ATOM	8823	CD2	LEU	E	196	72.813	33.665	73.916	1.00	29.70
ATOM	8824	N	THR	E	197	76.451	36.293	73.915	1.00	44.91
ATOM	8825	CA	THR	E	197	77.657	36.571	73.158	1.00	47.72
ATOM	8826	C	THR	E	197	77.536	35.708	71.891	1.00	52.43
ATOM	8827	O	THR	E	197	76.740	34.759	71.844	1.00	52.16
ATOM	8828	CB	THR	E	197	78.946	36.214	73.950	1.00	45.87
ATOM	8829	OG1	THR	E	197	79.095	34.792	74.052	1.00	45.81
ATOM	8830	CG2	THR	E	197	78.881	36.812	75.330	1.00	46.19
ATOM	8831	N	PRO	E	198	78.313	36.035	70.848	1.00	54.90
ATOM	8832	CA	PRO	E	198	78.333	35.337	69.557	1.00	55.50
ATOM	8833	C	PRO	E	198	78.614	33.838	69.620	1.00	56.20
ATOM	8834	O	PRO	E	198	79.394	33.380	70.464	1.00	55.40
ATOM	8835	CB	PRO	E	198	79.413	36.090	68.782	1.00	58.67
ATOM	8836	CG	PRO	E	198	80.351	36.549	69.889	1.00	58.33
ATOM	8837	CD	PRO	E	198	79.366	37.064	70.897	1.00	56.45
ATOM	8838	N	LYS	E	199	77.988	33.086	68.708	1.00	56.68
ATOM	8839	CA	LYS	E	199	78.167	31.639	68.643	1.00	55.30
ATOM	8840	C	LYS	E	199	79.647	31.383	68.653	1.00	55.26
ATOM	8841	O	LYS	E	199	80.441	32.296	68.420	1.00	54.55
ATOM	8842	CB	LYS	E	199	77.572	31.054	67.360	1.00	54.43
ATOM	8843	CG	LYS	E	199	76.053	31.007	67.343	1.00	59.53
ATOM	8844	CD	LYS	E	199	75.505	30.116	66.216	1.00	59.63
ATOM	8845	CE	LYS	E	199	73.987	29.909	66.358	1.00	58.47
ATOM	8846	NZ	LYS	E	199	73.437	28.957	65.352	1.00	51.71
ATOM	8847	N	MET	E	200	80.024	30.149	68.938	1.00	54.19
ATOM	8848	CA	MET	E	200	81.431	29.793	68.961	1.00	56.16
ATOM	8849	C	MET	E	200	81.541	28.304	68.749	1.00	57.55
ATOM	8850	O	MET	E	200	80.585	27.567	69.004	1.00	60.12
ATOM	8851	CB	MET	E	200	82.069	30.212	70.286	1.00	54.94
ATOM	8852	CG	MET	E	200	82.291	31.710	70.379	1.00	54.08
ATOM	8853	SD	MET	E	200	82.702	32.300	72.010	1.00	58.92
ATOM	8854	CE	MET	E	200	84.454	31.975	72.060	1.00	56.87
ATOM	8855	N	THR	E	201	82.693	27.857	68.260	1.00	56.82
ATOM	8856	CA	THR	E	201	82.878	26.442	68.012	1.00	54.73
ATOM	8857	C	THR	E	201	83.780	25.816	69.053	1.00	55.68
ATOM	8858	O	THR	E	201	84.887	26.285	69.302	1.00	54.78
ATOM	8859	CB	THR	E	201	83.443	26.206	66.610	1.00	53.15
ATOM	8860	OG1	THR	E	201	82.599	26.864	65.655	1.00	49.61
ATOM	8861	CG2	THR	E	201	83.485	24.711	66.291	1.00	49.35
ATOM	8862	N	GLY	E	202	83.279	24.751	69.664	1.00	57.68
ATOM	8863	CA	GLY	E	202	84.025	24.055	70.694	1.00	60.04
ATOM	8864	C	GLY	E	202	85.419	23.611	70.309	1.00	61.70

ATOM	8865	O	GLY	E	202	85.622	22.930	69.302	1.00	61.07
ATOM	8866	N	VAL	E	203	86.379	24.004	71.139	1.00	64.67
ATOM	8867	CA	VAL	E	203	87.789	23.676	70.954	1.00	66.54
ATOM	8868	C	VAL	E	203	88.223	22.697	72.047	1.00	69.24
ATOM	8869	O	VAL	E	203	88.552	23.119	73.163	1.00	69.52
ATOM	8870	CB	VAL	E	203	88.666	24.946	71.066	1.00	64.64
ATOM	8871	CG1	VAL	E	203	90.139	24.580	70.940	1.00	63.39
ATOM	8872	CG2	VAL	E	203	88.259	25.954	70.008	1.00	62.28
ATOM	8873	N	MET	E	204	88.218	21.401	71.739	1.00	71.05
ATOM	8874	CA	MET	E	204	88.620	20.401	72.724	1.00	74.25
ATOM	8875	C	MET	E	204	90.031	20.699	73.197	1.00	75.56
ATOM	8876	O	MET	E	204	90.802	21.362	72.507	1.00	76.04
ATOM	8877	CB	MET	E	204	88.579	18.989	72.132	1.00	76.11
ATOM	8878	CG	MET	E	204	87.188	18.457	71.862	1.00	79.50
ATOM	8879	SD	MET	E	204	86.243	19.528	70.755	1.00	85.33
ATOM	8880	CE	MET	E	204	86.896	19.035	69.146	1.00	85.17
ATOM	8881	N	GLU	E	205	90.363	20.214	74.385	1.00	77.26
ATOM	8882	CA	GLU	E	205	91.691	20.422	74.936	1.00	77.93
ATOM	8883	C	GLU	E	205	92.587	19.271	74.493	1.00	78.27
ATOM	8884	O	GLU	E	205	93.621	19.540	73.847	1.00	78.00
ATOM	8885	CB	GLU	E	205	91.614	20.465	76.454	1.00	79.06
ATOM	8886	CG	GLU	E	205	90.868	19.287	77.028	1.00	82.26
ATOM	8887	CD	GLU	E	205	90.885	19.281	78.529	1.00	85.81
ATOM	8888	OE1	GLU	E	205	91.485	20.211	79.124	1.00	84.34
ATOM	8889	OE2	GLU	E	205	90.297	18.341	79.109	1.00	88.47
ATOM	8890	OXT	GLU	E	205	92.237	18.108	74.791	1.00	79.04
ATOM	8891	N	PHE	F	1	82.426	83.358	59.149	1.00	25.01
ATOM	8892	CA	PHE	F	1	82.010	82.401	60.192	1.00	21.57
ATOM	8893	C	PHE	F	1	82.695	81.063	59.928	1.00	20.52
ATOM	8894	O	PHE	F	1	82.740	80.579	58.800	1.00	19.07
ATOM	8895	CB	PHE	F	1	80.479	82.288	60.170	1.00	23.16
ATOM	8896	CG	PHE	F	1	79.926	81.262	61.119	1.00	22.39
ATOM	8897	CD1	PHE	F	1	79.841	79.926	60.745	1.00	22.30
ATOM	8898	CD2	PHE	F	1	79.509	81.635	62.392	1.00	20.33
ATOM	8899	CE1	PHE	F	1	79.357	78.985	61.613	1.00	22.51
ATOM	8900	CE2	PHE	F	1	79.024	80.714	63.274	1.00	15.57
ATOM	8901	CZ	PHE	F	1	78.945	79.380	62.892	1.00	26.61
ATOM	8902	N	ALA	F	2	83.258	80.477	60.973	1.00	21.54
ATOM	8903	CA	ALA	F	2	83.948	79.197	60.835	1.00	24.27
ATOM	8904	C	ALA	F	2	83.817	78.329	62.077	1.00	25.59
ATOM	8905	O	ALA	F	2	83.530	78.818	63.171	1.00	26.99
ATOM	8906	CB	ALA	F	2	85.408	79.426	60.539	1.00	23.11
ATOM	8907	N	CYS	F	3	84.026	77.032	61.914	1.00	24.95
ATOM	8908	CA	CYS	F	3	83.934	76.152	63.059	1.00	26.85
ATOM	8909	C	CYS	F	3	85.045	75.130	63.000	1.00	26.72
ATOM	8910	O	CYS	F	3	85.512	74.774	61.929	1.00	26.43
ATOM	8911	CB	CYS	F	3	82.598	75.433	63.086	1.00	24.85
ATOM	8912	SG	CYS	F	3	81.121	76.469	62.931	1.00	31.31
ATOM	8913	N	LYS	F	4	85.482	74.674	64.162	1.00	26.89
ATOM	8914	CA	LYS	F	4	86.522	73.682	64.209	1.00	28.89
ATOM	8915	C	LYS	F	4	86.112	72.638	65.223	1.00	28.91
ATOM	8916	O	LYS	F	4	85.320	72.889	66.132	1.00	28.63
ATOM	8917	CB	LYS	F	4	87.873	74.302	64.578	1.00	33.49
ATOM	8918	CG	LYS	F	4	88.154	74.421	66.077	1.00	43.32
ATOM	8919	CD	LYS	F	4	89.520	75.086	66.395	1.00	50.14
ATOM	8920	CE	LYS	F	4	90.750	74.379	65.747	1.00	57.20
ATOM	8921	NZ	LYS	F	4	91.042	74.737	64.301	1.00	56.59
ATOM	8922	N	THR	F	5	86.667	71.454	65.040	1.00	29.89
ATOM	8923	CA	THR	F	5	86.378	70.306	65.865	1.00	27.45
ATOM	8924	C	THR	F	5	87.396	70.230	66.980	1.00	30.61
ATOM	8925	O	THR	F	5	88.549	70.596	66.800	1.00	33.41
ATOM	8926	CB	THR	F	5	86.422	69.038	64.983	1.00	23.49

ATOM	8927	OG1	THR	F	5	85.195	68.315	65.124	1.00	24.77
ATOM	8928	CG2	THR	F	5	87.583	68.170	65.334	1.00	18.51
ATOM	8929	N	ALA	F	6	86.966	69.763	68.142	1.00	34.87
ATOM	8930	CA	ALA	F	6	87.863	69.643	69.277	1.00	34.75
ATOM	8931	C	ALA	F	6	89.127	68.942	68.846	1.00	35.85
ATOM	8932	O	ALA	F	6	90.206	69.286	69.298	1.00	36.67
ATOM	8933	CB	ALA	F	6	87.201	68.873	70.382	1.00	37.97
ATOM	8934	N	ASN	F	7	88.990	67.957	67.966	1.00	39.68
ATOM	8935	CA	ASN	F	7	90.141	67.207	67.456	1.00	43.29
ATOM	8936	C	ASN	F	7	90.984	68.073	66.540	1.00	44.80
ATOM	8937	O	ASN	F	7	92.035	67.650	66.070	1.00	47.06
ATOM	8938	CB	ASN	F	7	89.687	65.988	66.660	1.00	45.61
ATOM	8939	CG	ASN	F	7	89.224	64.858	67.532	1.00	51.38
ATOM	8940	OD1	ASN	F	7	90.023	64.260	68.259	1.00	57.26
ATOM	8941	ND2	ASN	F	7	87.926	64.549	67.472	1.00	51.17
ATOM	8942	N	GLY	F	8	90.504	69.277	66.257	1.00	45.58
ATOM	8943	CA	GLY	F	8	91.249	70.172	65.392	1.00	46.94
ATOM	8944	C	GLY	F	8	90.692	70.357	63.988	1.00	47.35
ATOM	8945	O	GLY	F	8	90.999	71.359	63.338	1.00	49.89
ATOM	8946	N	THR	F	9	89.878	69.414	63.510	1.00	45.61
ATOM	8947	CA	THR	F	9	89.304	69.499	62.157	1.00	40.94
ATOM	8948	C	THR	F	9	88.359	70.667	61.935	1.00	38.85
ATOM	8949	O	THR	F	9	87.440	70.885	62.723	1.00	39.50
ATOM	8950	CB	THR	F	9	88.569	68.230	61.807	1.00	36.82
ATOM	8951	OG1	THR	F	9	89.528	67.192	61.620	1.00	39.36
ATOM	8952	CG2	THR	F	9	87.784	68.404	60.549	1.00	32.19
ATOM	8953	N	ALA	F	10	88.564	71.395	60.839	1.00	34.29
ATOM	8954	CA	ALA	F	10	87.736	72.560	60.556	1.00	29.60
ATOM	8955	C	ALA	F	10	86.916	72.542	59.293	1.00	26.59
ATOM	8956	O	ALA	F	10	87.156	71.775	58.379	1.00	26.00
ATOM	8957	CB	ALA	F	10	88.592	73.792	60.552	1.00	27.91
ATOM	8958	N	ILE	F	11	85.926	73.415	59.274	1.00	26.12
ATOM	8959	CA	ILE	F	11	85.047	73.594	58.132	1.00	26.35
ATOM	8960	C	ILE	F	11	85.106	75.092	57.941	1.00	24.06
ATOM	8961	O	ILE	F	11	84.631	75.840	58.779	1.00	27.48
ATOM	8962	CB	ILE	F	11	83.593	73.188	58.433	1.00	24.62
ATOM	8963	CG1	ILE	F	11	83.533	71.713	58.822	1.00	25.79
ATOM	8964	CG2	ILE	F	11	82.725	73.446	57.213	1.00	24.36
ATOM	8965	CD1	ILE	F	11	82.126	71.196	59.069	1.00	28.08
ATOM	8966	N	PRO	F	12	85.701	75.548	56.841	1.00	21.66
ATOM	8967	CA	PRO	F	12	85.845	76.972	56.523	1.00	20.37
ATOM	8968	C	PRO	F	12	84.548	77.676	56.170	1.00	20.26
ATOM	8969	O	PRO	F	12	83.508	77.039	56.138	1.00	19.28
ATOM	8970	CB	PRO	F	12	86.834	76.953	55.367	1.00	23.11
ATOM	8971	CG	PRO	F	12	86.492	75.657	54.671	1.00	23.68
ATOM	8972	CD	PRO	F	12	86.310	74.698	55.804	1.00	22.17
ATOM	8973	N	ILE	F	13	84.614	78.986	55.924	1.00	21.24
ATOM	8974	CA	ILE	F	13	83.427	79.764	55.547	1.00	24.32
ATOM	8975	C	ILE	F	13	82.826	79.097	54.346	1.00	23.59
ATOM	8976	O	ILE	F	13	83.538	78.529	53.537	1.00	25.31
ATOM	8977	CB	ILE	F	13	83.741	81.218	55.122	1.00	26.90
ATOM	8978	CG1	ILE	F	13	85.022	81.236	54.311	1.00	29.58
ATOM	8979	CG2	ILE	F	13	83.778	82.156	56.325	1.00	26.31
ATOM	8980	CD1	ILE	F	13	85.586	82.625	54.143	1.00	37.59
ATOM	8981	N	GLY	F	14	81.512	79.186	54.219	1.00	25.36
ATOM	8982	CA	GLY	F	14	80.846	78.533	53.106	1.00	29.44
ATOM	8983	C	GLY	F	14	80.284	77.195	53.562	1.00	28.94
ATOM	8984	O	GLY	F	14	79.341	76.661	52.978	1.00	30.05
ATOM	8985	N	GLY	F	15	80.874	76.657	54.623	1.00	29.16
ATOM	8986	CA	GLY	F	15	80.418	75.398	55.167	1.00	26.45
ATOM	8987	C	GLY	F	15	81.070	74.187	54.548	1.00	26.49
ATOM	8988	O	GLY	F	15	81.997	74.274	53.740	1.00	28.58

ATOM	8989	N	GLY	F	16	80.557	73.033	54.932	1.00	24.98
ATOM	8990	CA	GLY	F	16	81.093	71.784	54.440	1.00	20.57
ATOM	8991	C	GLY	F	16	80.761	70.794	55.525	1.00	18.10
ATOM	8992	O	GLY	F	16	79.730	70.929	56.182	1.00	19.80
ATOM	8993	N	SER	F	17	81.622	69.814	55.745	1.00	12.60
ATOM	8994	CA	SER	F	17	81.322	68.848	56.771	1.00	10.45
ATOM	8995	C	SER	F	17	82.537	68.287	57.476	1.00	8.64
ATOM	8996	O	SER	F	17	83.671	68.516	57.081	1.00	7.85
ATOM	8997	CB	SER	F	17	80.490	67.730	56.171	1.00	10.35
ATOM	8998	OG	SER	F	17	81.227	67.057	55.171	1.00	20.73
ATOM	8999	N	ALA	F	18	82.288	67.564	58.555	1.00	11.19
ATOM	9000	CA	ALA	F	18	83.366	66.968	59.331	1.00	14.58
ATOM	9001	C	ALA	F	18	82.811	65.895	60.239	1.00	16.62
ATOM	9002	O	ALA	F	18	81.620	65.875	60.557	1.00	19.67
ATOM	9003	CB	ALA	F	18	84.062	68.029	60.185	1.00	4.86
ATOM	9004	N	ASN	F	19	83.702	65.012	60.659	1.00	18.60
ATOM	9005	CA	ASN	F	19	83.358	63.952	61.573	1.00	15.91
ATOM	9006	C	ASN	F	19	83.675	64.405	62.973	1.00	18.46
ATOM	9007	O	ASN	F	19	84.716	65.007	63.250	1.00	21.32
ATOM	9008	CB	ASN	F	19	84.174	62.702	61.282	1.00	12.82
ATOM	9009	CG	ASN	F	19	83.656	61.935	60.083	1.00	14.04
ATOM	9010	OD1	ASN	F	19	82.678	62.338	59.426	1.00	14.65
ATOM	9011	ND2	ASN	F	19	84.304	60.820	59.790	1.00	7.79
ATOM	9012	N	VAL	F	20	82.765	64.086	63.865	1.00	19.16
ATOM	9013	CA	VAL	F	20	82.916	64.405	65.261	1.00	20.47
ATOM	9014	C	VAL	F	20	82.832	63.063	65.973	1.00	21.84
ATOM	9015	O	VAL	F	20	81.751	62.466	66.045	1.00	24.21
ATOM	9016	CB	VAL	F	20	81.778	65.305	65.681	1.00	22.36
ATOM	9017	CG1	VAL	F	20	81.806	65.558	67.187	1.00	19.91
ATOM	9018	CG2	VAL	F	20	81.871	66.583	64.864	1.00	26.32
ATOM	9019	N	TYR	F	21	83.965	62.566	66.465	1.00	19.56
ATOM	9020	CA	TYR	F	21	83.960	61.280	67.160	1.00	19.70
ATOM	9021	C	TYR	F	21	83.680	61.433	68.661	1.00	19.03
ATOM	9022	O	TYR	F	21	84.170	62.357	69.297	1.00	19.18
ATOM	9023	CB	TYR	F	21	85.286	60.569	66.926	1.00	18.96
ATOM	9024	CG	TYR	F	21	85.685	60.554	65.461	1.00	19.36
ATOM	9025	CD1	TYR	F	21	86.366	61.623	64.896	1.00	16.20
ATOM	9026	CD2	TYR	F	21	85.346	59.483	64.638	1.00	18.91
ATOM	9027	CE1	TYR	F	21	86.697	61.625	63.552	1.00	17.25
ATOM	9028	CE2	TYR	F	21	85.671	59.478	63.294	1.00	18.23
ATOM	9029	CZ	TYR	F	21	86.346	60.552	62.754	1.00	18.64
ATOM	9030	OH	TYR	F	21	86.658	60.553	61.412	1.00	19.71
ATOM	9031	N	VAL	F	22	82.878	60.531	69.224	1.00	19.64
ATOM	9032	CA	VAL	F	22	82.527	60.604	70.641	1.00	17.32
ATOM	9033	C	VAL	F	22	82.648	59.301	71.389	1.00	16.60
ATOM	9034	O	VAL	F	22	82.398	58.240	70.837	1.00	16.45
ATOM	9035	CB	VAL	F	22	81.089	61.058	70.834	1.00	17.52
ATOM	9036	CG1	VAL	F	22	80.894	62.422	70.250	1.00	18.00
ATOM	9037	CG2	VAL	F	22	80.162	60.070	70.188	1.00	17.93
ATOM	9038	N	ASN	F	23	83.027	59.408	72.660	1.00	18.39
ATOM	9039	CA	ASN	F	23	83.141	58.266	73.551	1.00	20.14
ATOM	9040	C	ASN	F	23	81.915	58.399	74.453	1.00	23.72
ATOM	9041	O	ASN	F	23	81.874	59.266	75.324	1.00	26.04
ATOM	9042	CB	ASN	F	23	84.396	58.380	74.383	1.00	21.09
ATOM	9043	CG	ASN	F	23	85.617	58.698	73.555	1.00	22.78
ATOM	9044	OD1	ASN	F	23	86.065	57.897	72.742	1.00	21.90
ATOM	9045	ND2	ASN	F	23	86.166	59.882	73.765	1.00	30.63
ATOM	9046	N	LEU	F	24	80.902	57.561	74.219	1.00	26.35
ATOM	9047	CA	LEU	F	24	79.651	57.594	74.985	1.00	22.36
ATOM	9048	C	LEU	F	24	79.745	56.694	76.197	1.00	26.13
ATOM	9049	O	LEU	F	24	80.586	55.775	76.248	1.00	26.84
ATOM	9050	CB	LEU	F	24	78.501	57.132	74.109	1.00	15.46

ATOM	9051	CG	LEU	F	24	78.421	57.827	72.746	1.00	14.25
ATOM	9052	CD1	LEU	F	24	77.884	56.866	71.708	1.00	18.87
ATOM	9053	CD2	LEU	F	24	77.539	59.059	72.836	1.00	14.85
ATOM	9054	N	ALA	F	25	78.888	56.961	77.181	1.00	26.63
ATOM	9055	CA	ALA	F	25	78.875	56.157	78.402	1.00	23.45
ATOM	9056	C	ALA	F	25	78.688	54.704	77.996	1.00	23.47
ATOM	9057	O	ALA	F	25	77.729	54.345	77.307	1.00	25.04
ATOM	9058	CB	ALA	F	25	77.759	56.600	79.307	1.00	22.55
ATOM	9059	N	PRO	F	26	79.602	53.848	78.430	1.00	21.29
ATOM	9060	CA	PRO	F	26	79.593	52.415	78.129	1.00	22.95
ATOM	9061	C	PRO	F	26	78.284	51.679	78.406	1.00	21.92
ATOM	9062	O	PRO	F	26	77.883	50.804	77.652	1.00	21.53
ATOM	9063	CB	PRO	F	26	80.726	51.869	79.007	1.00	24.64
ATOM	9064	CG	PRO	F	26	81.560	53.070	79.308	1.00	23.84
ATOM	9065	CD	PRO	F	26	80.546	54.142	79.512	1.00	17.64
ATOM	9066	N	VAL	F	27	77.644	52.040	79.509	1.00	21.27
ATOM	9067	CA	VAL	F	27	76.429	51.399	79.943	1.00	22.10
ATOM	9068	C	VAL	F	27	75.328	52.395	80.262	1.00	25.51
ATOM	9069	O	VAL	F	27	75.553	53.402	80.926	1.00	27.85
ATOM	9070	CB	VAL	F	27	76.706	50.547	81.206	1.00	19.95
ATOM	9071	CG1	VAL	F	27	75.447	49.814	81.637	1.00	20.34
ATOM	9072	CG2	VAL	F	27	77.822	49.568	80.939	1.00	15.57
ATOM	9073	N	VAL	F	28	74.128	52.081	79.804	1.00	27.85
ATOM	9074	CA	VAL	F	28	72.973	52.916	80.025	1.00	30.85
ATOM	9075	C	VAL	F	28	71.788	51.975	80.191	1.00	34.69
ATOM	9076	O	VAL	F	28	71.547	51.102	79.353	1.00	35.82
ATOM	9077	CB	VAL	F	28	72.761	53.859	78.825	1.00	30.01
ATOM	9078	CG1	VAL	F	28	71.493	54.668	78.987	1.00	31.07
ATOM	9079	CG2	VAL	F	28	73.934	54.783	78.718	1.00	28.38
ATOM	9080	N	ASN	F	29	71.063	52.146	81.291	1.00	36.88
ATOM	9081	CA	ASN	F	29	69.912	51.308	81.587	1.00	36.68
ATOM	9082	C	ASN	F	29	68.651	51.930	81.014	1.00	35.81
ATOM	9083	O	ASN	F	29	68.613	53.133	80.760	1.00	34.39
ATOM	9084	CB	ASN	F	29	69.788	51.129	83.105	1.00	37.94
ATOM	9085	CG	ASN	F	29	70.957	50.328	83.701	1.00	44.09
ATOM	9086	OD1	ASN	F	29	71.091	49.121	83.469	1.00	45.65
ATOM	9087	ND2	ASN	F	29	71.805	51.003	84.471	1.00	43.03
ATOM	9088	N	VAL	F	30	67.626	51.111	80.796	1.00	32.93
ATOM	9089	CA	VAL	F	30	66.375	51.620	80.262	1.00	34.40
ATOM	9090	C	VAL	F	30	65.876	52.737	81.187	1.00	37.23
ATOM	9091	O	VAL	F	30	66.120	52.708	82.384	1.00	37.44
ATOM	9092	CB	VAL	F	30	65.318	50.505	80.181	1.00	33.39
ATOM	9093	CG1	VAL	F	30	64.043	51.018	79.512	1.00	32.73
ATOM	9094	CG2	VAL	F	30	65.879	49.331	79.413	1.00	35.51
ATOM	9095	N	GLY	F	31	65.198	53.736	80.631	1.00	40.26
ATOM	9096	CA	GLY	F	31	64.696	54.816	81.456	1.00	38.92
ATOM	9097	C	GLY	F	31	65.782	55.795	81.830	1.00	40.47
ATOM	9098	O	GLY	F	31	65.486	56.940	82.179	1.00	41.43
ATOM	9099	N	GLN	F	32	67.035	55.349	81.758	1.00	40.26
ATOM	9100	CA	GLN	F	32	68.188	56.192	82.076	1.00	41.78
ATOM	9101	C	GLN	F	32	68.549	57.048	80.846	1.00	43.28
ATOM	9102	O	GLN	F	32	67.938	56.918	79.775	1.00	43.54
ATOM	9103	CB	GLN	F	32	69.366	55.306	82.468	1.00	42.63
ATOM	9104	CG	GLN	F	32	70.464	55.996	83.247	1.00	47.25
ATOM	9105	CD	GLN	F	32	71.423	55.003	83.898	1.00	49.96
ATOM	9106	OE1	GLN	F	32	72.214	54.341	83.218	1.00	48.30
ATOM	9107	NE2	GLN	F	32	71.341	54.884	85.225	1.00	48.51
ATOM	9108	N	ASN	F	33	69.548	57.912	80.975	1.00	42.17
ATOM	9109	CA	ASN	F	33	69.903	58.763	79.850	1.00	40.02
ATOM	9110	C	ASN	F	33	71.301	58.693	79.288	1.00	40.27
ATOM	9111	O	ASN	F	33	72.292	58.513	80.001	1.00	39.82
ATOM	9112	CB	ASN	F	33	69.609	60.219	80.180	1.00	37.99

ATOM	9113	CG	ASN	F	33	68.326	60.704	79.553	1.00	40.39
ATOM	9114	OD1	ASN	F	33	67.886	61.833	79.788	1.00	38.08
ATOM	9115	ND2	ASN	F	33	67.715	59.854	78.739	1.00	38.98
ATOM	9116	N	LEU	F	34	71.353	58.847	77.974	1.00	40.28
ATOM	9117	CA	LEU	F	34	72.605	58.877	77.252	1.00	39.19
ATOM	9118	C	LEU	F	34	72.656	60.327	76.787	1.00	38.71
ATOM	9119	O	LEU	F	34	71.726	60.828	76.137	1.00	37.27
ATOM	9120	CB	LEU	F	34	72.583	57.932	76.051	1.00	38.06
ATOM	9121	CG	LEU	F	34	73.956	57.744	75.414	1.00	37.85
ATOM	9122	CD1	LEU	F	34	74.923	57.185	76.448	1.00	35.50
ATOM	9123	CD2	LEU	F	34	73.851	56.806	74.231	1.00	40.66
ATOM	9124	N	VAL	F	35	73.728	61.008	77.163	1.00	35.45
ATOM	9125	CA	VAL	F	35	73.892	62.392	76.793	1.00	31.88
ATOM	9126	C	VAL	F	35	75.160	62.526	75.972	1.00	31.59
ATOM	9127	O	VAL	F	35	76.222	62.014	76.348	1.00	30.72
ATOM	9128	CB	VAL	F	35	73.986	63.297	78.049	1.00	31.02
ATOM	9129	CG1	VAL	F	35	73.923	64.753	77.640	1.00	29.23
ATOM	9130	CG2	VAL	F	35	72.850	62.988	79.003	1.00	26.26
ATOM	9131	N	VAL	F	36	75.037	63.185	74.827	1.00	29.66
ATOM	9132	CA	VAL	F	36	76.190	63.402	73.978	1.00	28.36
ATOM	9133	C	VAL	F	36	76.297	64.896	73.939	1.00	28.18
ATOM	9134	O	VAL	F	36	75.582	65.543	73.187	1.00	27.09
ATOM	9135	CB	VAL	F	36	75.975	62.896	72.544	1.00	29.81
ATOM	9136	CG1	VAL	F	36	77.326	62.484	71.946	1.00	25.66
ATOM	9137	CG2	VAL	F	36	74.984	61.732	72.521	1.00	26.53
ATOM	9138	N	ASP	F	37	77.168	65.448	74.769	1.00	28.01
ATOM	9139	CA	ASP	F	37	77.308	66.886	74.810	1.00	32.95
ATOM	9140	C	ASP	F	37	78.310	67.327	73.773	1.00	34.77
ATOM	9141	O	ASP	F	37	79.516	67.172	73.963	1.00	36.13
ATOM	9142	CB	ASP	F	37	77.756	67.333	76.191	1.00	36.91
ATOM	9143	CG	ASP	F	37	77.489	68.797	76.433	1.00	43.01
ATOM	9144	OD1	ASP	F	37	76.668	69.379	75.675	1.00	38.69
ATOM	9145	OD2	ASP	F	37	78.085	69.353	77.387	1.00	47.38
ATOM	9146	N	LEU	F	38	77.802	67.880	72.674	1.00	36.04
ATOM	9147	CA	LEU	F	38	78.645	68.330	71.570	1.00	36.51
ATOM	9148	C	LEU	F	38	79.273	69.704	71.772	1.00	37.53
ATOM	9149	O	LEU	F	38	80.231	70.070	71.077	1.00	36.55
ATOM	9150	CB	LEU	F	38	77.841	68.290	70.274	1.00	33.84
ATOM	9151	CG	LEU	F	38	77.613	66.840	69.863	1.00	28.85
ATOM	9152	CD1	LEU	F	38	76.406	66.731	68.985	1.00	32.83
ATOM	9153	CD2	LEU	F	38	78.846	66.329	69.168	1.00	26.73
ATOM	9154	N	SER	F	39	78.726	70.442	72.738	1.00	39.40
ATOM	9155	CA	SER	F	39	79.203	71.768	73.111	1.00	36.91
ATOM	9156	C	SER	F	39	80.614	71.613	73.665	1.00	36.73
ATOM	9157	O	SER	F	39	81.192	72.559	74.197	1.00	38.80
ATOM	9158	CB	SER	F	39	78.316	72.350	74.200	1.00	35.81
ATOM	9159	OG	SER	F	39	78.437	71.580	75.380	1.00	32.81
ATOM	9160	N	THR	F	40	81.152	70.405	73.538	1.00	34.35
ATOM	9161	CA	THR	F	40	82.482	70.098	74.007	1.00	33.75
ATOM	9162	C	THR	F	40	83.383	69.795	72.838	1.00	35.74
ATOM	9163	O	THR	F	40	84.614	69.791	72.979	1.00	40.21
ATOM	9164	CB	THR	F	40	82.492	68.867	74.890	1.00	29.07
ATOM	9165	OG1	THR	F	40	81.471	68.980	75.872	1.00	33.05
ATOM	9166	CG2	THR	F	40	83.794	68.759	75.598	1.00	33.58
ATOM	9167	N	GLN	F	41	82.784	69.543	71.677	1.00	34.74
ATOM	9168	CA	GLN	F	41	83.586	69.197	70.517	1.00	31.70
ATOM	9169	C	GLN	F	41	83.349	69.993	69.256	1.00	31.88
ATOM	9170	O	GLN	F	41	83.979	69.736	68.231	1.00	34.43
ATOM	9171	CB	GLN	F	41	83.415	67.725	70.238	1.00	30.22
ATOM	9172	CG	GLN	F	41	83.723	66.915	71.447	1.00	31.15
ATOM	9173	CD	GLN	F	41	84.280	65.587	71.083	1.00	34.23
ATOM	9174	OE1	GLN	F	41	83.565	64.726	70.577	1.00	38.96

ATOM	9175	NE2	GLN	F	41	85.574	65.401	71.318	1.00	37.13
ATOM	9176	N	ILE	F	42	82.449	70.960	69.315	1.00	29.50
ATOM	9177	CA	ILE	F	42	82.195	71.773	68.148	1.00	28.95
ATOM	9178	C	ILE	F	42	82.220	73.255	68.495	1.00	31.67
ATOM	9179	O	ILE	F	42	81.360	73.756	69.227	1.00	29.24
ATOM	9180	CB	ILE	F	42	80.834	71.440	67.518	1.00	26.21
ATOM	9181	CG1	ILE	F	42	80.794	69.973	67.138	1.00	23.86
ATOM	9182	CG2	ILE	F	42	80.597	72.288	66.274	1.00	20.71
ATOM	9183	CD1	ILE	F	42	79.482	69.562	66.570	1.00	28.18
ATOM	9184	N	PHE	F	43	83.209	73.957	67.958	1.00	32.92
ATOM	9185	CA	PHE	F	43	83.307	75.378	68.192	1.00	36.63
ATOM	9186	C	PHE	F	43	83.232	76.205	66.923	1.00	37.74
ATOM	9187	O	PHE	F	43	83.716	75.804	65.869	1.00	38.06
ATOM	9188	CB	PHE	F	43	84.587	75.667	68.945	1.00	39.73
ATOM	9189	CG	PHE	F	43	84.677	74.921	70.218	1.00	44.21
ATOM	9190	CD1	PHE	F	43	85.116	73.597	70.226	1.00	45.72
ATOM	9191	CD2	PHE	F	43	84.207	75.491	71.400	1.00	42.85
ATOM	9192	CE1	PHE	F	43	85.081	72.842	71.400	1.00	48.29
ATOM	9193	CE2	PHE	F	43	84.162	74.754	72.579	1.00	45.99
ATOM	9194	CZ	PHE	F	43	84.597	73.422	72.585	1.00	47.01
ATOM	9195	N	CYS	F	44	82.604	77.367	67.035	1.00	38.95
ATOM	9196	CA	CYS	F	44	82.466	78.276	65.908	1.00	40.27
ATOM	9197	C	CYS	F	44	82.809	79.677	66.377	1.00	40.60
ATOM	9198	O	CYS	F	44	82.762	79.970	67.573	1.00	41.87
ATOM	9199	CB	CYS	F	44	81.033	78.271	65.382	1.00	38.78
ATOM	9200	SG	CYS	F	44	80.416	76.661	64.819	1.00	37.69
ATOM	9201	N	HIS	F	45	83.147	80.545	65.434	1.00	39.53
ATOM	9202	CA	HIS	F	45	83.489	81.915	65.767	1.00	37.39
ATOM	9203	C	HIS	F	45	83.006	82.828	64.666	1.00	36.31
ATOM	9204	O	HIS	F	45	82.816	82.400	63.533	1.00	37.60
ATOM	9205	CB	HIS	F	45	85.007	82.086	65.920	1.00	34.23
ATOM	9206	CG	HIS	F	45	85.755	81.950	64.637	1.00	33.05
ATOM	9207	ND1	HIS	F	45	86.494	80.830	64.324	1.00	38.42
ATOM	9208	CD2	HIS	F	45	85.809	82.753	63.551	1.00	34.64
ATOM	9209	CE1	HIS	F	45	86.965	80.944	63.096	1.00	36.78
ATOM	9210	NE2	HIS	F	45	86.562	82.101	62.604	1.00	39.15
ATOM	9211	N	ASN	F	46	82.824	84.094	65.016	1.00	35.58
ATOM	9212	CA	ASN	F	46	82.396	85.122	64.086	1.00	33.57
ATOM	9213	C	ASN	F	46	83.678	85.732	63.502	1.00	34.68
ATOM	9214	O	ASN	F	46	84.618	85.984	64.239	1.00	34.82
ATOM	9215	CB	ASN	F	46	81.612	86.154	64.859	1.00	27.63
ATOM	9216	CG	ASN	F	46	80.975	87.149	63.981	1.00	25.80
ATOM	9217	OD1	ASN	F	46	81.622	87.758	63.136	1.00	24.38
ATOM	9218	ND2	ASN	F	46	79.690	87.336	64.168	1.00	28.03
ATOM	9219	N	ASP	F	47	83.724	85.963	62.194	1.00	38.19
ATOM	9220	CA	ASP	F	47	84.935	86.500	61.543	1.00	43.94
ATOM	9221	C	ASP	F	47	85.146	88.023	61.528	1.00	45.59
ATOM	9222	O	ASP	F	47	86.261	88.510	61.686	1.00	47.25
ATOM	9223	CB	ASP	F	47	85.038	85.976	60.099	1.00	43.40
ATOM	9224	CG	ASP	F	47	85.630	84.571	60.016	1.00	44.84
ATOM	9225	OD1	ASP	F	47	86.642	84.306	60.707	1.00	42.67
ATOM	9226	OD2	ASP	F	47	85.098	83.739	59.247	1.00	43.79
ATOM	9227	N	TYR	F	48	84.085	88.776	61.304	1.00	47.23
ATOM	9228	CA	TYR	F	48	84.195	90.218	61.290	1.00	49.02
ATOM	9229	C	TYR	F	48	83.133	90.697	62.266	1.00	50.33
ATOM	9230	O	TYR	F	48	82.182	91.394	61.888	1.00	49.36
ATOM	9231	CB	TYR	F	48	83.934	90.751	59.884	1.00	51.67
ATOM	9232	CG	TYR	F	48	84.844	90.144	58.824	1.00	56.75
ATOM	9233	CD1	TYR	F	48	86.185	90.533	58.718	1.00	58.06
ATOM	9234	CD2	TYR	F	48	84.364	89.179	57.928	1.00	55.89
ATOM	9235	CE1	TYR	F	48	87.024	89.974	57.742	1.00	57.79
ATOM	9236	CE2	TYR	F	48	85.192	88.615	56.953	1.00	53.02

ATOM	9237	CZ	TYR	F	48	86.517	89.012	56.866	1.00	55.11
ATOM	9238	OH	TYR	F	48	87.331	88.427	55.924	1.00	52.01
ATOM	9239	N	PRO	F	49	83.294	90.319	63.553	1.00	50.46
ATOM	9240	CA	PRO	F	49	82.388	90.661	64.654	1.00	49.91
ATOM	9241	C	PRO	F	49	82.060	92.134	64.813	1.00	52.58
ATOM	9242	O	PRO	F	49	80.903	92.471	65.002	1.00	54.45
ATOM	9243	CB	PRO	F	49	83.096	90.086	65.879	1.00	45.37
ATOM	9244	CG	PRO	F	49	84.521	90.153	65.507	1.00	44.94
ATOM	9245	CD	PRO	F	49	84.514	89.681	64.079	1.00	45.44
ATOM	9246	N	GLU	F	50	83.067	93.006	64.732	1.00	56.15
ATOM	9247	CA	GLU	F	50	82.866	94.457	64.892	1.00	56.86
ATOM	9248	C	GLU	F	50	81.766	95.080	64.031	1.00	55.84
ATOM	9249	O	GLU	F	50	81.189	96.098	64.414	1.00	56.34
ATOM	9250	CB	GLU	F	50	84.162	95.228	64.622	1.00	58.47
ATOM	9251	CG	GLU	F	50	85.275	94.964	65.595	1.00	62.63
ATOM	9252	CD	GLU	F	50	85.875	93.600	65.404	1.00	69.01
ATOM	9253	OE1	GLU	F	50	86.222	93.266	64.250	1.00	71.36
ATOM	9254	OE2	GLU	F	50	86.003	92.862	66.405	1.00	76.99
ATOM	9255	N	THR	F	51	81.480	94.491	62.875	1.00	53.69
ATOM	9256	CA	THR	F	51	80.445	95.034	62.002	1.00	53.64
ATOM	9257	C	THR	F	51	79.382	94.042	61.551	1.00	50.60
ATOM	9258	O	THR	F	51	78.336	94.436	61.036	1.00	48.56
ATOM	9259	CB	THR	F	51	81.057	95.671	60.729	1.00	57.26
ATOM	9260	OG1	THR	F	51	82.095	94.827	60.206	1.00	58.39
ATOM	9261	CG2	THR	F	51	81.609	97.042	61.044	1.00	59.33
ATOM	9262	N	ILE	F	52	79.639	92.758	61.757	1.00	48.81
ATOM	9263	CA	ILE	F	52	78.699	91.740	61.321	1.00	44.72
ATOM	9264	C	ILE	F	52	78.230	90.838	62.435	1.00	41.27
ATOM	9265	O	ILE	F	52	79.021	90.388	63.253	1.00	42.00
ATOM	9266	CB	ILE	F	52	79.342	90.876	60.224	1.00	45.64
ATOM	9267	CG1	ILE	F	52	79.890	91.790	59.128	1.00	45.33
ATOM	9268	CG2	ILE	F	52	78.333	89.884	59.674	1.00	44.13
ATOM	9269	CD1	ILE	F	52	80.349	91.072	57.908	1.00	52.26
ATOM	9270	N	THR	F	53	76.936	90.576	62.468	1.00	39.43
ATOM	9271	CA	THR	F	53	76.383	89.684	63.481	1.00	40.82
ATOM	9272	C	THR	F	53	76.019	88.334	62.866	1.00	38.49
ATOM	9273	O	THR	F	53	75.406	88.273	61.800	1.00	39.84
ATOM	9274	CB	THR	F	53	75.124	90.270	64.133	1.00	42.77
ATOM	9275	OG1	THR	F	53	75.466	91.452	64.871	1.00	46.33
ATOM	9276	CG2	THR	F	53	74.504	89.248	65.071	1.00	43.43
ATOM	9277	N	ASP	F	54	76.389	87.258	63.552	1.00	36.24
ATOM	9278	CA	ASP	F	54	76.117	85.906	63.078	1.00	34.61
ATOM	9279	C	ASP	F	54	74.999	85.161	63.808	1.00	33.65
ATOM	9280	O	ASP	F	54	74.961	85.109	65.039	1.00	32.70
ATOM	9281	CB	ASP	F	54	77.387	85.065	63.162	1.00	37.19
ATOM	9282	CG	ASP	F	54	78.186	85.082	61.880	1.00	38.34
ATOM	9283	OD1	ASP	F	54	77.557	85.052	60.807	1.00	41.12
ATOM	9284	OD2	ASP	F	54	79.436	85.095	61.938	1.00	37.91
ATOM	9285	N	TYR	F	55	74.100	84.572	63.028	1.00	33.32
ATOM	9286	CA	TYR	F	55	72.977	83.797	63.560	1.00	33.64
ATOM	9287	C	TYR	F	55	73.145	82.305	63.241	1.00	32.00
ATOM	9288	O	TYR	F	55	73.122	81.901	62.075	1.00	34.70
ATOM	9289	CB	TYR	F	55	71.666	84.294	62.964	1.00	32.84
ATOM	9290	CG	TYR	F	55	71.473	85.780	63.111	1.00	38.87
ATOM	9291	CD1	TYR	F	55	71.286	86.361	64.372	1.00	36.27
ATOM	9292	CD2	TYR	F	55	71.487	86.612	61.988	1.00	40.89
ATOM	9293	CE1	TYR	F	55	71.116	87.730	64.509	1.00	37.93
ATOM	9294	CE2	TYR	F	55	71.320	87.984	62.110	1.00	41.48
ATOM	9295	CZ	TYR	F	55	71.135	88.538	63.369	1.00	42.54
ATOM	9296	OH	TYR	F	55	70.970	89.902	63.470	1.00	44.25
ATOM	9297	N	VAL	F	56	73.304	81.500	64.286	1.00	27.34
ATOM	9298	CA	VAL	F	56	73.488	80.069	64.157	1.00	21.89

ATOM	9299	C	VAL	F	56	72.298	79.242	64.656	1.00	22.61
ATOM	9300	O	VAL	F	56	71.801	79.454	65.757	1.00	20.07
ATOM	9301	CB	VAL	F	56	74.699	79.671	64.940	1.00	20.61
ATOM	9302	CG1	VAL	F	56	74.876	78.182	64.899	1.00	24.96
ATOM	9303	CG2	VAL	F	56	75.886	80.377	64.387	1.00	19.32
ATOM	9304	N	THR	F	57	71.851	78.283	63.851	1.00	24.63
ATOM	9305	CA	THR	F	57	70.728	77.418	64.234	1.00	25.89
ATOM	9306	C	THR	F	57	71.030	75.929	64.059	1.00	26.91
ATOM	9307	O	THR	F	57	72.065	75.541	63.478	1.00	23.98
ATOM	9308	CB	THR	F	57	69.493	77.669	63.371	1.00	23.61
ATOM	9309	OG1	THR	F	57	69.787	77.312	62.019	1.00	24.97
ATOM	9310	CG2	THR	F	57	69.091	79.103	63.420	1.00	30.98
ATOM	9311	N	LEU	F	58	70.111	75.106	64.573	1.00	24.85
ATOM	9312	CA	LEU	F	58	70.191	73.664	64.408	1.00	24.05
ATOM	9313	C	LEU	F	58	69.161	73.415	63.297	1.00	24.12
ATOM	9314	O	LEU	F	58	67.976	73.234	63.549	1.00	23.82
ATOM	9315	CB	LEU	F	58	69.808	72.926	65.693	1.00	22.83
ATOM	9316	CG	LEU	F	58	69.823	71.396	65.565	1.00	26.36
ATOM	9317	CD1	LEU	F	58	71.239	70.923	65.205	1.00	25.85
ATOM	9318	CD2	LEU	F	58	69.343	70.750	66.859	1.00	22.25
ATOM	9319	N	GLN	F	59	69.644	73.450	62.060	1.00	26.24
ATOM	9320	CA	GLN	F	59	68.833	73.282	60.866	1.00	28.75
ATOM	9321	C	GLN	F	59	68.067	71.970	60.861	1.00	30.01
ATOM	9322	O	GLN	F	59	66.863	71.945	60.619	1.00	29.42
ATOM	9323	CB	GLN	F	59	69.746	73.351	59.643	1.00	37.26
ATOM	9324	CG	GLN	F	59	69.274	74.249	58.516	1.00	42.59
ATOM	9325	CD	GLN	F	59	68.141	73.642	57.728	1.00	49.60
ATOM	9326	OE1	GLN	F	59	67.176	73.130	58.301	1.00	51.62
ATOM	9327	NE2	GLN	F	59	68.242	73.703	56.403	1.00	51.77
ATOM	9328	N	ARG	F	60	68.776	70.875	61.124	1.00	31.03
ATOM	9329	CA	ARG	F	60	68.171	69.543	61.150	1.00	30.89
ATOM	9330	C	ARG	F	60	68.976	68.706	62.129	1.00	32.13
ATOM	9331	O	ARG	F	60	70.086	69.091	62.508	1.00	36.95
ATOM	9332	CB	ARG	F	60	68.234	68.905	59.758	1.00	31.34
ATOM	9333	CG	ARG	F	60	67.276	67.753	59.509	1.00	33.64
ATOM	9334	CD	ARG	F	60	67.388	67.213	58.073	1.00	39.90
ATOM	9335	NE	ARG	F	60	67.793	68.227	57.087	1.00	50.80
ATOM	9336	CZ	ARG	F	60	67.069	69.288	56.707	1.00	54.06
ATOM	9337	NH1	ARG	F	60	65.860	69.517	57.217	1.00	54.68
ATOM	9338	NH2	ARG	F	60	67.566	70.139	55.812	1.00	49.94
ATOM	9339	N	GLY	F	61	68.418	67.570	62.540	1.00	30.92
ATOM	9340	CA	GLY	F	61	69.102	66.678	63.463	1.00	28.35
ATOM	9341	C	GLY	F	61	68.585	65.293	63.168	1.00	28.04
ATOM	9342	O	GLY	F	61	67.425	65.002	63.441	1.00	30.51
ATOM	9343	N	SER	F	62	69.430	64.433	62.614	1.00	26.45
ATOM	9344	CA	SER	F	62	68.991	63.091	62.247	1.00	26.41
ATOM	9345	C	SER	F	62	69.643	61.970	63.008	1.00	23.94
ATOM	9346	O	SER	F	62	70.809	62.067	63.366	1.00	25.10
ATOM	9347	CB	SER	F	62	69.225	62.853	60.749	1.00	25.82
ATOM	9348	OG	SER	F	62	68.525	63.803	59.978	1.00	25.79
ATOM	9349	N	ALA	F	63	68.887	60.889	63.202	1.00	22.43
ATOM	9350	CA	ALA	F	63	69.366	59.699	63.907	1.00	23.01
ATOM	9351	C	ALA	F	63	69.756	58.589	62.943	1.00	22.73
ATOM	9352	O	ALA	F	63	69.179	58.457	61.859	1.00	23.19
ATOM	9353	CB	ALA	F	63	68.309	59.195	64.842	1.00	26.38
ATOM	9354	N	TYR	F	64	70.726	57.783	63.356	1.00	20.64
ATOM	9355	CA	TYR	F	64	71.218	56.704	62.531	1.00	22.30
ATOM	9356	C	TYR	F	64	71.540	55.490	63.353	1.00	24.19
ATOM	9357	O	TYR	F	64	71.809	55.596	64.545	1.00	26.26
ATOM	9358	CB	TYR	F	64	72.488	57.128	61.792	1.00	25.45
ATOM	9359	CG	TYR	F	64	72.247	58.175	60.751	1.00	25.45
ATOM	9360	CD1	TYR	F	64	72.059	59.502	61.113	1.00	33.66

ATOM	9361	CD2	TYR	F	64	72.100	57.830	59.418	1.00	21.51
ATOM	9362	CE1	TYR	F	64	71.713	60.460	60.168	1.00	35.62
ATOM	9363	CE2	TYR	F	64	71.760	58.766	58.476	1.00	27.91
ATOM	9364	CZ	TYR	F	64	71.561	60.078	58.855	1.00	34.11
ATOM	9365	OH	TYR	F	64	71.159	61.007	57.930	1.00	45.00
ATOM	9366	N	GLY	F	65	71.531	54.336	62.693	1.00	24.44
ATOM	9367	CA	GLY	F	65	71.851	53.085	63.351	1.00	23.57
ATOM	9368	C	GLY	F	65	71.193	52.891	64.698	1.00	23.49
ATOM	9369	O	GLY	F	65	70.007	53.186	64.878	1.00	25.76
ATOM	9370	N	GLY	F	66	71.972	52.389	65.647	1.00	20.75
ATOM	9371	CA	GLY	F	66	71.454	52.150	66.974	1.00	21.01
ATOM	9372	C	GLY	F	66	70.516	53.223	67.472	1.00	22.54
ATOM	9373	O	GLY	F	66	69.341	52.977	67.677	1.00	24.07
ATOM	9374	N	VAL	F	67	71.032	54.426	67.661	1.00	25.20
ATOM	9375	CA	VAL	F	67	70.226	55.519	68.172	1.00	27.21
ATOM	9376	C	VAL	F	67	68.831	55.602	67.570	1.00	29.33
ATOM	9377	O	VAL	F	67	67.867	55.994	68.235	1.00	31.16
ATOM	9378	CB	VAL	F	67	70.947	56.845	67.944	1.00	26.38
ATOM	9379	CG1	VAL	F	67	69.984	58.020	68.167	1.00	26.75
ATOM	9380	CG2	VAL	F	67	72.132	56.934	68.893	1.00	29.28
ATOM	9381	N	LEU	F	68	68.731	55.202	66.314	1.00	27.54
ATOM	9382	CA	LEU	F	68	67.492	55.278	65.570	1.00	26.12
ATOM	9383	C	LEU	F	68	66.454	54.199	65.867	1.00	28.49
ATOM	9384	O	LEU	F	68	65.261	54.344	65.574	1.00	30.80
ATOM	9385	CB	LEU	F	68	67.854	55.275	64.091	1.00	23.61
ATOM	9386	CG	LEU	F	68	66.752	55.557	63.094	1.00	18.19
ATOM	9387	CD1	LEU	F	68	66.047	56.854	63.433	1.00	14.70
ATOM	9388	CD2	LEU	F	68	67.374	55.600	61.735	1.00	17.83
ATOM	9389	N	SER	F	69	66.905	53.105	66.447	1.00	29.83
ATOM	9390	CA	SER	F	69	66.000	52.020	66.756	1.00	30.28
ATOM	9391	C	SER	F	69	65.886	51.782	68.239	1.00	30.44
ATOM	9392	O	SER	F	69	64.825	51.423	68.725	1.00	32.62
ATOM	9393	CB	SER	F	69	66.495	50.744	66.114	1.00	32.12
ATOM	9394	OG	SER	F	69	67.723	50.359	66.700	1.00	32.25
ATOM	9395	N	ASN	F	70	66.981	51.984	68.958	1.00	30.35
ATOM	9396	CA	ASN	F	70	66.995	51.749	70.384	1.00	30.62
ATOM	9397	C	ASN	F	70	66.764	52.971	71.257	1.00	31.94
ATOM	9398	O	ASN	F	70	66.779	52.865	72.486	1.00	32.72
ATOM	9399	CB	ASN	F	70	68.313	51.091	70.771	1.00	34.50
ATOM	9400	CG	ASN	F	70	68.562	49.806	70.014	1.00	37.09
ATOM	9401	OD1	ASN	F	70	67.645	49.022	69.815	1.00	44.70
ATOM	9402	ND2	ASN	F	70	69.806	49.573	69.603	1.00	36.85
ATOM	9403	N	PHE	F	71	66.553	54.135	70.655	1.00	30.48
ATOM	9404	CA	PHE	F	71	66.336	55.310	71.483	1.00	30.11
ATOM	9405	C	PHE	F	71	65.212	56.269	71.101	1.00	30.87
ATOM	9406	O	PHE	F	71	64.704	56.281	69.992	1.00	30.75
ATOM	9407	CB	PHE	F	71	67.630	56.106	71.618	1.00	28.91
ATOM	9408	CG	PHE	F	71	68.753	55.346	72.246	1.00	26.19
ATOM	9409	CD1	PHE	F	71	69.387	54.314	71.562	1.00	28.54
ATOM	9410	CD2	PHE	F	71	69.204	55.683	73.518	1.00	28.62
ATOM	9411	CE1	PHE	F	71	70.462	53.627	72.137	1.00	28.88
ATOM	9412	CE2	PHE	F	71	70.285	55.008	74.114	1.00	23.17
ATOM	9413	CZ	PHE	F	71	70.912	53.979	73.422	1.00	27.56
ATOM	9414	N	SER	F	72	64.845	57.082	72.077	1.00	33.91
ATOM	9415	CA	SER	F	72	63.813	58.082	71.948	1.00	35.71
ATOM	9416	C	SER	F	72	64.400	59.255	72.703	1.00	36.35
ATOM	9417	O	SER	F	72	64.708	59.127	73.880	1.00	38.41
ATOM	9418	CB	SER	F	72	62.547	57.599	72.641	1.00	36.65
ATOM	9419	OG	SER	F	72	61.656	58.672	72.895	1.00	45.05
ATOM	9420	N	GLY	F	73	64.574	60.393	72.043	1.00	36.92
ATOM	9421	CA	GLY	F	73	65.153	61.516	72.754	1.00	37.80
ATOM	9422	C	GLY	F	73	64.813	62.932	72.335	1.00	37.65

ATOM	9423	O	GLY	F	73	63.934	63.194	71.514	1.00	34.23
ATOM	9424	N	THR	F	74	65.539	63.861	72.938	1.00	38.73
ATOM	9425	CA	THR	F	74	65.360	65.267	72.657	1.00	39.28
ATOM	9426	C	THR	F	74	66.712	65.871	72.318	1.00	39.97
ATOM	9427	O	THR	F	74	67.764	65.281	72.600	1.00	38.66
ATOM	9428	CB	THR	F	74	64.796	66.032	73.892	1.00	37.67
ATOM	9429	OG1	THR	F	74	65.715	65.918	74.989	1.00	37.62
ATOM	9430	CG2	THR	F	74	63.455	65.478	74.301	1.00	29.33
ATOM	9431	N	VAL	F	75	66.667	67.044	71.695	1.00	39.90
ATOM	9432	CA	VAL	F	75	67.878	67.780	71.374	1.00	39.54
ATOM	9433	C	VAL	F	75	67.743	69.091	72.147	1.00	38.65
ATOM	9434	O	VAL	F	75	66.824	69.874	71.919	1.00	36.91
ATOM	9435	CB	VAL	F	75	68.035	68.053	69.832	1.00	40.40
ATOM	9436	CG1	VAL	F	75	66.889	68.926	69.302	1.00	36.43
ATOM	9437	CG2	VAL	F	75	69.386	68.710	69.562	1.00	35.29
ATOM	9438	N	LYS	F	76	68.639	69.301	73.099	1.00	38.90
ATOM	9439	CA	LYS	F	76	68.614	70.515	73.890	1.00	41.79
ATOM	9440	C	LYS	F	76	69.516	71.550	73.209	1.00	40.49
ATOM	9441	O	LYS	F	76	70.742	71.443	73.269	1.00	39.47
ATOM	9442	CB	LYS	F	76	69.118	70.217	75.303	1.00	46.57
ATOM	9443	CG	LYS	F	76	68.983	71.388	76.269	1.00	54.38
ATOM	9444	CD	LYS	F	76	69.730	71.122	77.579	1.00	58.88
ATOM	9445	CE	LYS	F	76	69.540	72.258	78.583	1.00	59.71
ATOM	9446	NZ	LYS	F	76	70.252	71.976	79.864	1.00	60.10
ATOM	9447	N	TYR	F	77	68.906	72.538	72.555	1.00	37.75
ATOM	9448	CA	TYR	F	77	69.668	73.574	71.859	1.00	37.77
ATOM	9449	C	TYR	F	77	69.635	74.923	72.546	1.00	39.16
ATOM	9450	O	TYR	F	77	68.701	75.703	72.335	1.00	38.66
ATOM	9451	CB	TYR	F	77	69.156	73.761	70.425	1.00	36.47
ATOM	9452	CG	TYR	F	77	69.982	74.718	69.582	1.00	33.78
ATOM	9453	CD1	TYR	F	77	71.368	74.573	69.478	1.00	32.08
ATOM	9454	CD2	TYR	F	77	69.374	75.738	68.855	1.00	34.82
ATOM	9455	CE1	TYR	F	77	72.124	75.417	68.665	1.00	33.37
ATOM	9456	CE2	TYR	F	77	70.123	76.593	68.036	1.00	33.87
ATOM	9457	CZ	TYR	F	77	71.496	76.423	67.943	1.00	34.50
ATOM	9458	OH	TYR	F	77	72.240	77.235	67.108	1.00	36.07
ATOM	9459	N	SER	F	78	70.657	75.197	73.354	1.00	38.94
ATOM	9460	CA	SER	F	78	70.755	76.468	74.053	1.00	41.75
ATOM	9461	C	SER	F	78	69.620	76.664	75.074	1.00	42.04
ATOM	9462	O	SER	F	78	68.780	77.555	74.946	1.00	39.52
ATOM	9463	CB	SER	F	78	70.765	77.600	73.015	1.00	44.33
ATOM	9464	OG	SER	F	78	71.097	78.848	73.589	1.00	52.04
ATOM	9465	N	GLY	F	79	69.588	75.801	76.078	1.00	43.76
ATOM	9466	CA	GLY	F	79	68.583	75.924	77.118	1.00	48.34
ATOM	9467	C	GLY	F	79	67.157	75.590	76.738	1.00	50.38
ATOM	9468	O	GLY	F	79	66.216	75.854	77.498	1.00	51.96
ATOM	9469	N	SER	F	80	66.978	75.019	75.558	1.00	50.01
ATOM	9470	CA	SER	F	80	65.645	74.632	75.129	1.00	48.15
ATOM	9471	C	SER	F	80	65.755	73.269	74.484	1.00	46.57
ATOM	9472	O	SER	F	80	66.751	72.951	73.834	1.00	45.44
ATOM	9473	CB	SER	F	80	65.099	75.653	74.149	1.00	49.32
ATOM	9474	OG	SER	F	80	65.311	76.953	74.672	1.00	56.77
ATOM	9475	N	SER	F	81	64.745	72.440	74.691	1.00	45.18
ATOM	9476	CA	SER	F	81	64.774	71.118	74.105	1.00	42.91
ATOM	9477	C	SER	F	81	63.681	70.966	73.082	1.00	39.82
ATOM	9478	O	SER	F	81	62.655	71.632	73.138	1.00	36.60
ATOM	9479	CB	SER	F	81	64.656	70.036	75.183	1.00	45.74
ATOM	9480	OG	SER	F	81	65.903	69.840	75.846	1.00	51.29
ATOM	9481	N	TYR	F	82	63.951	70.104	72.114	1.00	40.78
ATOM	9482	CA	TYR	F	82	63.025	69.810	71.040	1.00	40.31
ATOM	9483	C	TYR	F	82	63.200	68.330	70.727	1.00	39.78
ATOM	9484	O	TYR	F	82	64.156	67.687	71.177	1.00	39.34

ATOM	9485	CB	TYR	F	82	63.355	70.619	69.788	1.00	39.33
ATOM	9486	CG	TYR	F	82	63.668	72.067	70.028	1.00	40.23
ATOM	9487	CD1	TYR	F	82	64.813	72.444	70.713	1.00	40.61
ATOM	9488	CD2	TYR	F	82	62.850	73.066	69.519	1.00	44.10
ATOM	9489	CE1	TYR	F	82	65.141	73.781	70.881	1.00	45.12
ATOM	9490	CE2	TYR	F	82	63.170	74.412	69.680	1.00	45.15
ATOM	9491	CZ	TYR	F	82	64.317	74.760	70.357	1.00	44.33
ATOM	9492	OH	TYR	F	82	64.656	76.082	70.474	1.00	46.95
ATOM	9493	N	PRO	F	83	62.280	67.772	69.947	1.00	38.39
ATOM	9494	CA	PRO	F	83	62.312	66.362	69.555	1.00	39.88
ATOM	9495	C	PRO	F	83	63.559	65.980	68.732	1.00	39.65
ATOM	9496	O	PRO	F	83	64.073	66.790	67.963	1.00	40.81
ATOM	9497	CB	PRO	F	83	61.034	66.210	68.732	1.00	42.62
ATOM	9498	CG	PRO	F	83	60.138	67.295	69.264	1.00	42.60
ATOM	9499	CD	PRO	F	83	61.063	68.440	69.457	1.00	39.66
ATOM	9500	N	PHE	F	84	64.035	64.749	68.888	1.00	36.83
ATOM	9501	CA	PHE	F	84	65.172	64.279	68.118	1.00	34.96
ATOM	9502	C	PHE	F	84	64.942	62.821	67.728	1.00	35.56
ATOM	9503	O	PHE	F	84	64.799	61.967	68.598	1.00	37.09
ATOM	9504	CB	PHE	F	84	66.462	64.380	68.930	1.00	35.05
ATOM	9505	CG	PHE	F	84	67.681	63.921	68.178	1.00	31.42
ATOM	9506	CD1	PHE	F	84	68.205	64.686	67.141	1.00	31.97
ATOM	9507	CD2	PHE	F	84	68.271	62.702	68.464	1.00	27.11
ATOM	9508	CE1	PHE	F	84	69.297	64.240	66.396	1.00	29.45
ATOM	9509	CE2	PHE	F	84	69.367	62.248	67.720	1.00	28.40
ATOM	9510	CZ	PHE	F	84	69.877	63.021	66.686	1.00	26.39
ATOM	9511	N	PRO	F	85	64.890	62.513	66.414	1.00	35.59
ATOM	9512	CA	PRO	F	85	65.036	63.379	65.241	1.00	34.18
ATOM	9513	C	PRO	F	85	64.259	64.661	65.313	1.00	35.47
ATOM	9514	O	PRO	F	85	63.210	64.738	65.934	1.00	37.90
ATOM	9515	CB	PRO	F	85	64.578	62.488	64.114	1.00	30.18
ATOM	9516	CG	PRO	F	85	65.202	61.205	64.508	1.00	32.39
ATOM	9517	CD	PRO	F	85	64.844	61.104	65.982	1.00	34.42
ATOM	9518	N	THR	F	86	64.800	65.673	64.661	1.00	36.25
ATOM	9519	CA	THR	F	86	64.209	66.991	64.653	1.00	37.79
ATOM	9520	C	THR	F	86	63.110	67.108	63.622	1.00	38.66
ATOM	9521	O	THR	F	86	63.147	66.446	62.595	1.00	41.26
ATOM	9522	CB	THR	F	86	65.277	68.027	64.338	1.00	38.76
ATOM	9523	OG1	THR	F	86	65.735	67.827	63.001	1.00	36.52
ATOM	9524	CG2	THR	F	86	66.460	67.881	65.296	1.00	40.46
ATOM	9525	N	THR	F	87	62.136	67.963	63.893	1.00	39.75
ATOM	9526	CA	THR	F	87	61.045	68.161	62.964	1.00	41.72
ATOM	9527	C	THR	F	87	60.918	69.598	62.494	1.00	41.79
ATOM	9528	O	THR	F	87	60.166	69.869	61.560	1.00	41.54
ATOM	9529	CB	THR	F	87	59.719	67.715	63.567	1.00	43.33
ATOM	9530	OG1	THR	F	87	59.798	67.791	64.990	1.00	52.80
ATOM	9531	CG2	THR	F	87	59.413	66.299	63.167	1.00	46.19
ATOM	9532	N	SER	F	88	61.649	70.514	63.132	1.00	42.52
ATOM	9533	CA	SER	F	88	61.624	71.928	62.739	1.00	44.35
ATOM	9534	C	SER	F	88	62.942	72.610	63.078	1.00	45.12
ATOM	9535	O	SER	F	88	63.584	72.242	64.067	1.00	46.20
ATOM	9536	CB	SER	F	88	60.516	72.673	63.469	1.00	46.33
ATOM	9537	OG	SER	F	88	60.963	73.063	64.754	1.00	50.75
ATOM	9538	N	GLU	F	89	63.332	73.605	62.272	1.00	44.47
ATOM	9539	CA	GLU	F	89	64.571	74.356	62.512	1.00	43.33
ATOM	9540	C	GLU	F	89	64.379	75.139	63.806	1.00	41.77
ATOM	9541	O	GLU	F	89	63.297	75.653	64.073	1.00	41.34
ATOM	9542	CB	GLU	F	89	64.865	75.335	61.369	1.00	44.48
ATOM	9543	CG	GLU	F	89	66.308	75.835	61.351	1.00	43.43
ATOM	9544	CD	GLU	F	89	66.570	76.851	60.259	1.00	43.02
ATOM	9545	OE1	GLU	F	89	65.899	76.767	59.205	1.00	42.57
ATOM	9546	OE2	GLU	F	89	67.455	77.720	60.448	1.00	41.75

ATOM	9547	N	THR	F	90	65.433	75.233	64.603	1.00	40.09
ATOM	9548	CA	THR	F	90	65.341	75.916	65.880	1.00	39.97
ATOM	9549	C	THR	F	90	65.613	77.393	65.806	1.00	41.69
ATOM	9550	O	THR	F	90	66.070	77.915	64.790	1.00	42.77
ATOM	9551	CB	THR	F	90	66.330	75.360	66.886	1.00	37.23
ATOM	9552	OG1	THR	F	90	67.657	75.548	66.382	1.00	37.35
ATOM	9553	CG2	THR	F	90	66.052	73.904	67.154	1.00	37.12
ATOM	9554	N	PRO	F	91	65.330	78.097	66.907	1.00	43.42
ATOM	9555	CA	PRO	F	91	65.553	79.538	66.983	1.00	43.26
ATOM	9556	C	PRO	F	91	67.027	79.766	66.700	1.00	42.65
ATOM	9557	O	PRO	F	91	67.809	78.820	66.705	1.00	42.71
ATOM	9558	CB	PRO	F	91	65.193	79.856	68.426	1.00	43.40
ATOM	9559	CG	PRO	F	91	64.134	78.856	68.723	1.00	43.94
ATOM	9560	CD	PRO	F	91	64.695	77.601	68.141	1.00	42.58
ATOM	9561	N	ARG	F	92	67.408	81.013	66.458	1.00	44.28
ATOM	9562	CA	ARG	F	92	68.802	81.332	66.172	1.00	44.67
ATOM	9563	C	ARG	F	92	69.573	81.840	67.389	1.00	41.36
ATOM	9564	O	ARG	F	92	69.030	82.503	68.264	1.00	42.33
ATOM	9565	CB	ARG	F	92	68.896	82.340	65.004	1.00	47.22
ATOM	9566	CG	ARG	F	92	67.986	83.561	65.103	1.00	55.74
ATOM	9567	CD	ARG	F	92	68.105	84.445	63.862	1.00	59.78
ATOM	9568	NE	ARG	F	92	67.465	85.756	64.019	1.00	68.76
ATOM	9569	CZ	ARG	F	92	67.713	86.615	65.016	1.00	72.85
ATOM	9570	NH1	ARG	F	92	68.588	86.312	65.966	1.00	72.12
ATOM	9571	NH2	ARG	F	92	67.099	87.796	65.056	1.00	75.65
ATOM	9572	N	VAL	F	93	70.842	81.474	67.444	1.00	37.93
ATOM	9573	CA	VAL	F	93	71.734	81.885	68.511	1.00	35.65
ATOM	9574	C	VAL	F	93	72.708	82.830	67.845	1.00	35.75
ATOM	9575	O	VAL	F	93	73.011	82.671	66.671	1.00	34.32
ATOM	9576	CB	VAL	F	93	72.522	80.707	69.049	1.00	34.02
ATOM	9577	CG1	VAL	F	93	73.547	81.192	70.055	1.00	30.95
ATOM	9578	CG2	VAL	F	93	71.572	79.690	69.652	1.00	34.90
ATOM	9579	N	VAL	F	94	73.214	83.814	68.567	1.00	36.75
ATOM	9580	CA	VAL	F	94	74.133	84.719	67.907	1.00	38.80
ATOM	9581	C	VAL	F	94	75.570	84.505	68.277	1.00	37.81
ATOM	9582	O	VAL	F	94	75.904	84.130	69.400	1.00	37.00
ATOM	9583	CB	VAL	F	94	73.808	86.199	68.168	1.00	38.67
ATOM	9584	CG1	VAL	F	94	72.446	86.537	67.601	1.00	40.54
ATOM	9585	CG2	VAL	F	94	73.876	86.482	69.647	1.00	45.25
ATOM	9586	N	TYR	F	95	76.415	84.728	67.284	1.00	37.38
ATOM	9587	CA	TYR	F	95	77.840	84.625	67.452	1.00	35.93
ATOM	9588	C	TYR	F	95	78.349	86.009	67.055	1.00	36.66
ATOM	9589	O	TYR	F	95	78.089	86.488	65.944	1.00	35.15
ATOM	9590	CB	TYR	F	95	78.398	83.518	66.558	1.00	31.48
ATOM	9591	CG	TYR	F	95	78.171	82.135	67.127	1.00	28.44
ATOM	9592	CD1	TYR	F	95	76.925	81.551	67.094	1.00	26.29
ATOM	9593	CD2	TYR	F	95	79.209	81.427	67.737	1.00	33.62
ATOM	9594	CE1	TYR	F	95	76.705	80.304	67.651	1.00	28.61
ATOM	9595	CE2	TYR	F	95	79.000	80.176	68.298	1.00	30.26
ATOM	9596	CZ	TYR	F	95	77.740	79.618	68.253	1.00	30.66
ATOM	9597	OH	TYR	F	95	77.500	78.370	68.811	1.00	35.15
ATOM	9598	N	ASN	F	96	79.033	86.658	67.993	1.00	35.25
ATOM	9599	CA	ASN	F	96	79.563	87.994	67.788	1.00	35.85
ATOM	9600	C	ASN	F	96	80.965	88.160	68.377	1.00	35.83
ATOM	9601	O	ASN	F	96	81.199	89.027	69.219	1.00	38.12
ATOM	9602	CB	ASN	F	96	78.611	89.005	68.420	1.00	38.33
ATOM	9603	CG	ASN	F	96	78.296	88.687	69.882	1.00	39.75
ATOM	9604	OD1	ASN	F	96	77.397	89.284	70.477	1.00	44.55
ATOM	9605	ND2	ASN	F	96	79.034	87.750	70.465	1.00	42.84
ATOM	9606	N	SER	F	97	81.898	87.335	67.923	1.00	33.53
ATOM	9607	CA	SER	F	97	83.262	87.392	68.414	1.00	33.73
ATOM	9608	C	SER	F	97	84.152	86.485	67.563	1.00	35.51

ATOM	9609	O	SER F	97	83.666	85.534	66.955	1.00	36.66
ATOM	9610	CB	SER F	97	83.285	86.945	69.873	1.00	29.55
ATOM	9611	OG	SER F	97	84.588	86.538	70.256	1.00	33.36
ATOM	9612	N	ARG F	98	85.447	86.774	67.499	1.00	36.66
ATOM	9613	CA	ARG F	98	86.332	85.928	66.706	1.00	38.88
ATOM	9614	C	ARG F	98	86.824	84.776	67.551	1.00	38.85
ATOM	9615	O	ARG F	98	87.480	83.876	67.046	1.00	42.88
ATOM	9616	CB	ARG F	98	87.541	86.710	66.198	1.00	41.62
ATOM	9617	CG	ARG F	98	87.190	87.877	65.303	1.00	51.25
ATOM	9618	CD	ARG F	98	88.420	88.422	64.591	1.00	58.33
ATOM	9619	NE	ARG F	98	88.048	89.400	63.571	1.00	65.43
ATOM	9620	CZ	ARG F	98	87.534	90.597	63.834	1.00	68.71
ATOM	9621	NH1	ARG F	98	87.334	90.971	65.094	1.00	70.16
ATOM	9622	NH2	ARG F	98	87.214	91.413	62.836	1.00	69.63
ATOM	9623	N	THR F	99	86.524	84.815	68.843	1.00	37.90
ATOM	9624	CA	THR F	99	86.950	83.762	69.755	1.00	37.85
ATOM	9625	C	THR F	99	86.025	82.566	69.609	1.00	39.08
ATOM	9626	O	THR F	99	84.805	82.718	69.612	1.00	39.70
ATOM	9627	CB	THR F	99	86.889	84.218	71.216	1.00	35.63
ATOM	9628	OG1	THR F	99	87.708	85.379	71.408	1.00	36.51
ATOM	9629	CG2	THR F	99	87.389	83.115	72.110	1.00	35.62
ATOM	9630	N	ASP F	100	86.593	81.373	69.482	1.00	39.22
ATOM	9631	CA	ASP F	100	85.760	80.193	69.325	1.00	39.50
ATOM	9632	C	ASP F	100	84.919	79.967	70.567	1.00	39.42
ATOM	9633	O	ASP F	100	85.448	79.751	71.658	1.00	41.90
ATOM	9634	CB	ASP F	100	86.608	78.941	69.071	1.00	43.32
ATOM	9635	CG	ASP F	100	87.355	78.984	67.748	1.00	48.11
ATOM	9636	OD1	ASP F	100	86.716	79.169	66.686	1.00	52.77
ATOM	9637	OD2	ASP F	100	88.593	78.817	67.770	1.00	51.98
ATOM	9638	N	LYS F	101	83.607	80.035	70.399	1.00	38.42
ATOM	9639	CA	LYS F	101	82.669	79.795	71.482	1.00	36.06
ATOM	9640	C	LYS F	101	82.027	78.454	71.109	1.00	36.77
ATOM	9641	O	LYS F	101	82.124	78.022	69.954	1.00	34.67
ATOM	9642	CB	LYS F	101	81.633	80.920	71.520	1.00	36.83
ATOM	9643	CG	LYS F	101	80.231	80.517	72.005	1.00	40.33
ATOM	9644	CD	LYS F	101	79.201	81.651	71.805	1.00	38.31
ATOM	9645	CE	LYS F	101	77.769	81.173	71.989	1.00	34.46
ATOM	9646	NZ	LYS F	101	76.837	82.260	71.638	1.00	30.51
ATOM	9647	N	PRO F	102	81.405	77.756	72.084	1.00	36.41
ATOM	9648	CA	PRO F	102	80.763	76.465	71.812	1.00	34.16
ATOM	9649	C	PRO F	102	79.472	76.528	70.998	1.00	31.63
ATOM	9650	O	PRO F	102	78.890	77.584	70.806	1.00	31.66
ATOM	9651	CB	PRO F	102	80.507	75.912	73.215	1.00	29.57
ATOM	9652	CG	PRO F	102	81.611	76.456	73.983	1.00	30.32
ATOM	9653	CD	PRO F	102	81.623	77.896	73.534	1.00	35.22
ATOM	9654	N	TRP F	103	79.054	75.371	70.503	1.00	31.63
ATOM	9655	CA	TRP F	103	77.803	75.236	69.771	1.00	30.49
ATOM	9656	C	TRP F	103	77.026	74.330	70.735	1.00	30.49
ATOM	9657	O	TRP F	103	77.211	73.109	70.769	1.00	29.57
ATOM	9658	CB	TRP F	103	78.039	74.554	68.429	1.00	31.46
ATOM	9659	CG	TRP F	103	76.832	74.541	67.576	1.00	27.24
ATOM	9660	CD1	TRP F	103	75.936	75.548	67.426	1.00	26.22
ATOM	9661	CD2	TRP F	103	76.364	73.456	66.773	1.00	22.41
ATOM	9662	NE1	TRP F	103	74.928	75.159	66.581	1.00	27.32
ATOM	9663	CE2	TRP F	103	75.164	73.876	66.168	1.00	20.83
ATOM	9664	CE3	TRP F	103	76.839	72.174	66.510	1.00	18.32
ATOM	9665	CZ2	TRP F	103	74.423	73.056	65.321	1.00	17.32
ATOM	9666	CZ3	TRP F	103	76.100	71.360	65.664	1.00	23.08
ATOM	9667	CH2	TRP F	103	74.902	71.807	65.081	1.00	16.43
ATOM	9668	N	PRO F	104	76.170	74.943	71.559	1.00	28.08
ATOM	9669	CA	PRO F	104	75.305	74.382	72.593	1.00	27.48
ATOM	9670	C	PRO F	104	74.304	73.339	72.148	1.00	27.18

ATOM	9671	O	PRO	F	104	73.108	73.524	72.344	1.00	25.69
ATOM	9672	CB	PRO	F	104	74.605	75.607	73.115	1.00	29.45
ATOM	9673	CG	PRO	F	104	74.325	76.321	71.870	1.00	28.45
ATOM	9674	CD	PRO	F	104	75.687	76.285	71.202	1.00	28.59
ATOM	9675	N	VAL	F	105	74.787	72.255	71.552	1.00	27.68
ATOM	9676	CA	VAL	F	105	73.909	71.181	71.098	1.00	26.49
ATOM	9677	C	VAL	F	105	74.223	69.953	71.927	1.00	28.31
ATOM	9678	O	VAL	F	105	75.394	69.583	72.089	1.00	26.31
ATOM	9679	CB	VAL	F	105	74.117	70.840	69.601	1.00	22.31
ATOM	9680	CG1	VAL	F	105	73.185	69.742	69.204	1.00	22.09
ATOM	9681	CG2	VAL	F	105	73.846	72.046	68.743	1.00	20.10
ATOM	9682	N	ALA	F	106	73.178	69.337	72.473	1.00	29.89
ATOM	9683	CA	ALA	F	106	73.353	68.146	73.286	1.00	30.92
ATOM	9684	C	ALA	F	106	72.201	67.191	73.092	1.00	33.47
ATOM	9685	O	ALA	F	106	71.037	67.578	73.122	1.00	34.91
ATOM	9686	CB	ALA	F	106	73.478	68.511	74.756	1.00	29.26
ATOM	9687	N	LEU	F	107	72.555	65.929	72.889	1.00	36.58
ATOM	9688	CA	LEU	F	107	71.596	64.853	72.704	1.00	35.52
ATOM	9689	C	LEU	F	107	71.287	64.174	74.039	1.00	35.66
ATOM	9690	O	LEU	F	107	72.190	63.903	74.847	1.00	32.67
ATOM	9691	CB	LEU	F	107	72.168	63.821	71.727	1.00	34.42
ATOM	9692	CG	LEU	F	107	71.840	63.881	70.234	1.00	33.05
ATOM	9693	CD1	LEU	F	107	71.378	65.269	69.807	1.00	32.53
ATOM	9694	CD2	LEU	F	107	73.073	63.429	69.466	1.00	29.85
ATOM	9695	N	TYR	F	108	70.001	63.913	74.256	1.00	37.29
ATOM	9696	CA	TYR	F	108	69.510	63.230	75.453	1.00	35.67
ATOM	9697	C	TYR	F	108	68.805	62.000	74.949	1.00	35.19
ATOM	9698	O	TYR	F	108	67.636	62.062	74.567	1.00	34.69
ATOM	9699	CB	TYR	F	108	68.543	64.121	76.212	1.00	33.20
ATOM	9700	CG	TYR	F	108	69.269	65.225	76.897	1.00	37.86
ATOM	9701	CD1	TYR	F	108	70.205	64.942	77.884	1.00	40.23
ATOM	9702	CD2	TYR	F	108	69.082	66.548	76.525	1.00	43.96
ATOM	9703	CE1	TYR	F	108	70.943	65.931	78.482	1.00	42.79
ATOM	9704	CE2	TYR	F	108	69.819	67.561	77.124	1.00	48.94
ATOM	9705	CZ	TYR	F	108	70.754	67.241	78.105	1.00	48.22
ATOM	9706	OH	TYR	F	108	71.507	68.233	78.706	1.00	52.92
ATOM	9707	N	LEU	F	109	69.534	60.887	74.937	1.00	35.54
ATOM	9708	CA	LEU	F	109	69.010	59.621	74.426	1.00	35.34
ATOM	9709	C	LEU	F	109	68.628	58.632	75.523	1.00	35.83
ATOM	9710	O	LEU	F	109	69.366	58.451	76.491	1.00	36.99
ATOM	9711	CB	LEU	F	109	70.046	58.999	73.481	1.00	29.15
ATOM	9712	CG	LEU	F	109	70.502	59.911	72.346	1.00	22.31
ATOM	9713	CD1	LEU	F	109	71.411	59.159	71.433	1.00	26.90
ATOM	9714	CD2	LEU	F	109	69.339	60.399	71.572	1.00	16.42
ATOM	9715	N	THR	F	110	67.475	57.987	75.365	1.00	36.87
ATOM	9716	CA	THR	F	110	67.004	57.033	76.371	1.00	38.54
ATOM	9717	C	THR	F	110	66.706	55.671	75.766	1.00	40.21
ATOM	9718	O	THR	F	110	65.853	55.539	74.882	1.00	38.29
ATOM	9719	CB	THR	F	110	65.716	57.520	77.074	1.00	37.01
ATOM	9720	OG1	THR	F	110	65.805	58.926	77.342	1.00	39.69
ATOM	9721	CG2	THR	F	110	65.529	56.775	78.379	1.00	33.56
ATOM	9722	N	PRO	F	111	67.406	54.632	76.246	1.00	41.04
ATOM	9723	CA	PRO	F	111	67.206	53.277	75.742	1.00	40.70
ATOM	9724	C	PRO	F	111	65.778	52.882	75.991	1.00	43.64
ATOM	9725	O	PRO	F	111	65.209	53.214	77.035	1.00	44.65
ATOM	9726	CB	PRO	F	111	68.166	52.452	76.577	1.00	38.64
ATOM	9727	CG	PRO	F	111	69.259	53.416	76.886	1.00	42.24
ATOM	9728	CD	PRO	F	111	68.484	54.659	77.245	1.00	41.19
ATOM	9729	N	VAL	F	112	65.188	52.183	75.032	1.00	45.17
ATOM	9730	CA	VAL	F	112	63.819	51.744	75.190	1.00	44.89
ATOM	9731	C	VAL	F	112	63.753	50.380	75.834	1.00	46.02
ATOM	9732	O	VAL	F	112	64.758	49.666	75.959	1.00	43.47

ATOM	9733	CB	VAL F 112	63.082	51.640	73.856	1.00	45.41
ATOM	9734	CG1	VAL F 112	62.811	53.016	73.307	1.00	44.55
ATOM	9735	CG2	VAL F 112	63.895	50.804	72.888	1.00	44.09
ATOM	9736	N	SER F 113	62.533	50.049	76.243	1.00	47.59
ATOM	9737	CA	SER F 113	62.195	48.781	76.859	1.00	46.16
ATOM	9738	C	SER F 113	62.839	47.665	76.028	1.00	45.14
ATOM	9739	O	SER F 113	63.547	46.800	76.548	1.00	42.54
ATOM	9740	CB	SER F 113	60.678	48.664	76.846	1.00	44.04
ATOM	9741	OG	SER F 113	60.228	47.584	77.617	1.00	54.27
ATOM	9742	N	SER F 114	62.618	47.736	74.719	1.00	46.52
ATOM	9743	CA	SER F 114	63.142	46.755	73.774	1.00	49.46
ATOM	9744	C	SER F 114	64.616	46.893	73.370	1.00	50.67
ATOM	9745	O	SER F 114	65.144	46.031	72.665	1.00	51.92
ATOM	9746	CB	SER F 114	62.276	46.750	72.507	1.00	49.97
ATOM	9747	OG	SER F 114	62.241	48.021	71.882	1.00	50.42
ATOM	9748	N	ALA F 115	65.286	47.958	73.795	1.00	51.26
ATOM	9749	CA	ALA F 115	66.691	48.125	73.440	1.00	52.04
ATOM	9750	C	ALA F 115	67.452	46.811	73.645	1.00	52.26
ATOM	9751	O	ALA F 115	67.329	46.175	74.700	1.00	51.82
ATOM	9752	CB	ALA F 115	67.316	49.227	74.282	1.00	53.71
ATOM	9753	N	GLY F 116	68.235	46.417	72.637	1.00	50.92
ATOM	9754	CA	GLY F 116	69.004	45.179	72.713	1.00	49.17
ATOM	9755	C	GLY F 116	70.057	45.089	73.814	1.00	46.90
ATOM	9756	O	GLY F 116	69.793	45.357	74.999	1.00	45.59
ATOM	9757	N	GLY F 117	71.253	44.669	73.419	1.00	44.13
ATOM	9758	CA	GLY F 117	72.363	44.558	74.351	1.00	41.43
ATOM	9759	C	GLY F 117	73.370	45.642	73.995	1.00	38.19
ATOM	9760	O	GLY F 117	73.855	46.383	74.857	1.00	38.06
ATOM	9761	N	VAL F 118	73.685	45.710	72.705	1.00	33.29
ATOM	9762	CA	VAL F 118	74.590	46.704	72.151	1.00	28.31
ATOM	9763	C	VAL F 118	73.664	47.638	71.404	1.00	27.54
ATOM	9764	O	VAL F 118	73.434	47.456	70.218	1.00	28.27
ATOM	9765	CB	VAL F 118	75.560	46.084	71.137	1.00	24.18
ATOM	9766	CG1	VAL F 118	76.342	47.172	70.434	1.00	22.86
ATOM	9767	CG2	VAL F 118	76.493	45.135	71.837	1.00	14.73
ATOM	9768	N	ALA F 119	73.109	48.619	72.103	1.00	27.48
ATOM	9769	CA	ALA F 119	72.178	49.557	71.478	1.00	28.08
ATOM	9770	C	ALA F 119	72.872	50.489	70.518	1.00	27.81
ATOM	9771	O	ALA F 119	72.228	51.175	69.726	1.00	26.78
ATOM	9772	CB	ALA F 119	71.453	50.377	72.540	1.00	32.80
ATOM	9773	N	ILE F 120	74.191	50.534	70.616	1.00	24.85
ATOM	9774	CA	ILE F 120	74.971	51.375	69.743	1.00	23.93
ATOM	9775	C	ILE F 120	76.269	50.673	69.445	1.00	24.48
ATOM	9776	O	ILE F 120	77.032	50.382	70.344	1.00	29.01
ATOM	9777	CB	ILE F 120	75.229	52.752	70.390	1.00	22.33
ATOM	9778	CG1	ILE F 120	73.966	53.615	70.253	1.00	22.17
ATOM	9779	CG2	ILE F 120	76.417	53.434	69.738	1.00	20.15
ATOM	9780	CD1	ILE F 120	74.165	55.087	70.538	1.00	21.28
ATOM	9781	N	LYS F 121	76.516	50.367	68.184	1.00	24.64
ATOM	9782	CA	LYS F 121	77.760	49.705	67.851	1.00	27.43
ATOM	9783	C	LYS F 121	78.902	50.710	67.755	1.00	26.66
ATOM	9784	O	LYS F 121	78.731	51.847	67.296	1.00	24.71
ATOM	9785	CB	LYS F 121	77.634	48.942	66.529	1.00	34.10
ATOM	9786	CG	LYS F 121	77.421	47.450	66.686	1.00	42.49
ATOM	9787	CD	LYS F 121	76.093	46.982	66.075	1.00	48.29
ATOM	9788	CE	LYS F 121	75.334	46.049	67.041	1.00	51.52
ATOM	9789	NZ	LYS F 121	76.202	44.982	67.648	1.00	56.66
ATOM	9790	N	ALA F 122	80.072	50.279	68.199	1.00	25.04
ATOM	9791	CA	ALA F 122	81.253	51.110	68.158	1.00	25.36
ATOM	9792	C	ALA F 122	81.651	51.434	66.689	1.00	27.17
ATOM	9793	O	ALA F 122	81.675	50.560	65.804	1.00	24.10
ATOM	9794	CB	ALA F 122	82.385	50.401	68.898	1.00	20.88

ATOM	9795	N	GLY	F	123	81.941	52.706	66.432	1.00	27.60
ATOM	9796	CA	GLY	F	123	82.321	53.106	65.094	1.00	25.99
ATOM	9797	C	GLY	F	123	81.139	53.477	64.210	1.00	28.16
ATOM	9798	O	GLY	F	123	81.350	53.974	63.094	1.00	29.80
ATOM	9799	N	SER	F	124	79.909	53.278	64.697	1.00	23.77
ATOM	9800	CA	SER	F	124	78.724	53.572	63.899	1.00	19.68
ATOM	9801	C	SER	F	124	78.243	55.015	63.891	1.00	18.57
ATOM	9802	O	SER	F	124	78.494	55.780	64.807	1.00	23.70
ATOM	9803	CB	SER	F	124	77.575	52.661	64.315	1.00	18.22
ATOM	9804	OG	SER	F	124	77.166	52.910	65.640	1.00	25.48
ATOM	9805	N	LEU	F	125	77.547	55.389	62.835	1.00	17.91
ATOM	9806	CA	LEU	F	125	77.037	56.738	62.730	1.00	20.94
ATOM	9807	C	LEU	F	125	75.862	56.819	63.678	1.00	23.06
ATOM	9808	O	LEU	F	125	74.890	56.078	63.552	1.00	24.44
ATOM	9809	CB	LEU	F	125	76.586	57.023	61.297	1.00	20.00
ATOM	9810	CG	LEU	F	125	76.145	58.433	60.915	1.00	15.42
ATOM	9811	CD1	LEU	F	125	77.354	59.357	60.849	1.00	11.91
ATOM	9812	CD2	LEU	F	125	75.446	58.383	59.581	1.00	7.21
ATOM	9813	N	ILE	F	126	75.976	57.718	64.642	1.00	27.43
ATOM	9814	CA	ILE	F	126	74.954	57.932	65.668	1.00	27.50
ATOM	9815	C	ILE	F	126	73.978	59.011	65.253	1.00	26.99
ATOM	9816	O	ILE	F	126	72.792	58.911	65.497	1.00	27.76
ATOM	9817	CB	ILE	F	126	75.607	58.381	66.983	1.00	28.40
ATOM	9818	CG1	ILE	F	126	76.569	57.308	67.477	1.00	32.33
ATOM	9819	CG2	ILE	F	126	74.579	58.661	68.007	1.00	27.15
ATOM	9820	CD1	ILE	F	126	75.917	55.974	67.727	1.00	35.38
ATOM	9821	N	ALA	F	127	74.491	60.057	64.622	1.00	29.49
ATOM	9822	CA	ALA	F	127	73.652	61.164	64.200	1.00	25.92
ATOM	9823	C	ALA	F	127	74.357	62.121	63.240	1.00	22.84
ATOM	9824	O	ALA	F	127	75.585	62.152	63.144	1.00	21.34
ATOM	9825	CB	ALA	F	127	73.191	61.934	65.448	1.00	28.96
ATOM	9826	N	VAL	F	128	73.561	62.900	62.523	1.00	18.31
ATOM	9827	CA	VAL	F	128	74.109	63.903	61.633	1.00	17.74
ATOM	9828	C	VAL	F	128	73.365	65.182	61.959	1.00	19.09
ATOM	9829	O	VAL	F	128	72.161	65.245	61.767	1.00	22.09
ATOM	9830	CB	VAL	F	128	73.883	63.571	60.156	1.00	14.88
ATOM	9831	CG1	VAL	F	128	74.385	64.717	59.317	1.00	15.84
ATOM	9832	CG2	VAL	F	128	74.609	62.300	59.770	1.00	10.79
ATOM	9833	N	LEU	F	129	74.074	66.188	62.471	1.00	20.46
ATOM	9834	CA	LEU	F	129	73.465	67.473	62.830	1.00	19.77
ATOM	9835	C	LEU	F	129	73.880	68.614	61.889	1.00	20.57
ATOM	9836	O	LEU	F	129	75.080	68.847	61.679	1.00	19.04
ATOM	9837	CB	LEU	F	129	73.877	67.846	64.239	1.00	21.53
ATOM	9838	CG	LEU	F	129	73.623	66.827	65.331	1.00	22.22
ATOM	9839	CD1	LEU	F	129	74.202	67.381	66.615	1.00	25.29
ATOM	9840	CD2	LEU	F	129	72.149	66.568	65.489	1.00	22.22
ATOM	9841	N	ILE	F	130	72.905	69.335	61.340	1.00	17.74
ATOM	9842	CA	ILE	F	130	73.231	70.443	60.433	1.00	20.82
ATOM	9843	C	ILE	F	130	73.121	71.828	61.080	1.00	24.85
ATOM	9844	O	ILE	F	130	72.033	72.279	61.470	1.00	23.94
ATOM	9845	CB	ILE	F	130	72.353	70.454	59.164	1.00	15.86
ATOM	9846	CG1	ILE	F	130	72.505	69.145	58.392	1.00	18.32
ATOM	9847	CG2	ILE	F	130	72.814	71.538	58.247	1.00	10.58
ATOM	9848	CD1	ILE	F	130	71.506	69.007	57.246	1.00	12.27
ATOM	9849	N	LEU	F	131	74.275	72.487	61.177	1.00	26.58
ATOM	9850	CA	LEU	F	131	74.412	73.819	61.751	1.00	26.99
ATOM	9851	C	LEU	F	131	74.213	74.828	60.643	1.00	28.29
ATOM	9852	O	LEU	F	131	74.937	74.805	59.658	1.00	27.04
ATOM	9853	CB	LEU	F	131	75.818	73.980	62.342	1.00	26.22
ATOM	9854	CG	LEU	F	131	76.220	75.325	62.959	1.00	23.55
ATOM	9855	CD1	LEU	F	131	77.459	75.154	63.831	1.00	18.25
ATOM	9856	CD2	LEU	F	131	76.457	76.337	61.860	1.00	18.24

ATOM	9857	N	ARG	F	132	73.242	75.721	60.807	1.00	31.84
ATOM	9858	CA	ARG	F	132	72.975	76.736	59.792	1.00	33.32
ATOM	9859	C	ARG	F	132	73.525	78.104	60.193	1.00	33.16
ATOM	9860	O	ARG	F	132	73.454	78.492	61.357	1.00	33.05
ATOM	9861	CB	ARG	F	132	71.475	76.836	59.540	1.00	37.51
ATOM	9862	CG	ARG	F	132	71.123	77.605	58.281	1.00	40.89
ATOM	9863	CD	ARG	F	132	69.659	77.423	57.941	1.00	42.46
ATOM	9864	NE	ARG	F	132	69.403	77.810	56.561	1.00	46.55
ATOM	9865	CZ	ARG	F	132	68.427	77.300	55.819	1.00	48.83
ATOM	9866	NH1	ARG	F	132	67.615	76.382	56.332	1.00	47.56
ATOM	9867	NH2	ARG	F	132	68.276	77.697	54.561	1.00	49.93
ATOM	9868	N	ASN	F	133	74.060	78.835	59.219	1.00	32.29
ATOM	9869	CA	ASN	F	133	74.644	80.140	59.479	1.00	29.87
ATOM	9870	C	ASN	F	133	74.223	81.202	58.496	1.00	30.46
ATOM	9871	O	ASN	F	133	74.230	80.997	57.282	1.00	33.33
ATOM	9872	CB	ASN	F	133	76.172	80.015	59.499	1.00	31.84
ATOM	9873	CG	ASN	F	133	76.894	81.292	59.071	1.00	33.40
ATOM	9874	OD1	ASN	F	133	77.011	81.588	57.881	1.00	35.75
ATOM	9875	ND2	ASN	F	133	77.389	82.042	60.040	1.00	29.37
ATOM	9876	N	THR	F	134	73.851	82.348	59.038	1.00	29.35
ATOM	9877	CA	THR	F	134	73.433	83.483	58.230	1.00	31.05
ATOM	9878	C	THR	F	134	74.002	84.693	58.930	1.00	32.54
ATOM	9879	O	THR	F	134	74.674	84.543	59.940	1.00	35.04
ATOM	9880	CB	THR	F	134	71.914	83.602	58.178	1.00	26.76
ATOM	9881	OG1	THR	F	134	71.382	83.321	59.477	1.00	29.56
ATOM	9882	CG2	THR	F	134	71.337	82.642	57.167	1.00	15.15
ATOM	9883	N	ASN	F	135	73.746	85.885	58.406	1.00	34.58
ATOM	9884	CA	ASN	F	135	74.278	87.092	59.031	1.00	38.06
ATOM	9885	C	ASN	F	135	73.455	88.309	58.680	1.00	39.39
ATOM	9886	O	ASN	F	135	72.712	88.303	57.702	1.00	42.47
ATOM	9887	CB	ASN	F	135	75.712	87.331	58.586	1.00	36.61
ATOM	9888	CG	ASN	F	135	75.820	87.517	57.105	1.00	38.25
ATOM	9889	OD1	ASN	F	135	75.499	86.620	56.330	1.00	36.88
ATOM	9890	ND2	ASN	F	135	76.264	88.694	56.695	1.00	43.91
ATOM	9891	N	ASN	F	136	73.612	89.361	59.474	1.00	39.35
ATOM	9892	CA	ASN	F	136	72.867	90.584	59.254	1.00	39.59
ATOM	9893	C	ASN	F	136	73.500	91.475	58.209	1.00	39.84
ATOM	9894	O	ASN	F	136	73.010	92.569	57.964	1.00	40.47
ATOM	9895	CB	ASN	F	136	72.746	91.350	60.560	1.00	40.24
ATOM	9896	CG	ASN	F	136	74.078	91.848	61.063	1.00	40.90
ATOM	9897	OD1	ASN	F	136	74.224	92.179	62.240	1.00	44.83
ATOM	9898	ND2	ASN	F	136	75.054	91.924	60.173	1.00	38.97
ATOM	9899	N	TYR	F	137	74.585	91.014	57.594	1.00	42.20
ATOM	9900	CA	TYR	F	137	75.263	91.823	56.588	1.00	43.52
ATOM	9901	C	TYR	F	137	74.899	91.519	55.159	1.00	42.70
ATOM	9902	O	TYR	F	137	74.773	92.438	54.355	1.00	44.60
ATOM	9903	CB	TYR	F	137	76.786	91.729	56.684	1.00	46.40
ATOM	9904	CG	TYR	F	137	77.445	92.479	55.535	1.00	49.90
ATOM	9905	CD1	TYR	F	137	77.308	93.859	55.415	1.00	50.74
ATOM	9906	CD2	TYR	F	137	78.146	91.804	54.536	1.00	50.01
ATOM	9907	CE1	TYR	F	137	77.852	94.545	54.336	1.00	53.37
ATOM	9908	CE2	TYR	F	137	78.690	92.482	53.453	1.00	51.05
ATOM	9909	CZ	TYR	F	137	78.542	93.851	53.360	1.00	52.18
ATOM	9910	OH	TYR	F	137	79.092	94.533	52.298	1.00	54.17
ATOM	9911	N	ASN	F	138	74.774	90.245	54.820	1.00	41.17
ATOM	9912	CA	ASN	F	138	74.435	89.885	53.451	1.00	42.95
ATOM	9913	C	ASN	F	138	73.443	88.739	53.412	1.00	46.04
ATOM	9914	O	ASN	F	138	72.903	88.346	54.450	1.00	48.27
ATOM	9915	CB	ASN	F	138	75.691	89.519	52.659	1.00	38.34
ATOM	9916	CG	ASN	F	138	76.336	88.258	53.147	1.00	33.89
ATOM	9917	OD1	ASN	F	138	77.465	87.971	52.807	1.00	41.13
ATOM	9918	ND2	ASN	F	138	75.624	87.492	53.941	1.00	35.92

ATOM	9919	N	SER F 139	73.223	88.192	52.219	1.00	47.21
ATOM	9920	CA	SER F 139	72.264	87.106	52.029	1.00	46.83
ATOM	9921	C	SER F 139	72.876	85.705	51.938	1.00	46.12
ATOM	9922	O	SER F 139	72.319	84.810	51.297	1.00	45.15
ATOM	9923	CB	SER F 139	71.450	87.402	50.781	1.00	46.27
ATOM	9924	OG	SER F 139	72.297	87.970	49.794	1.00	52.82
ATOM	9925	N	ASP F 140	74.020	85.518	52.584	1.00	44.51
ATOM	9926	CA	ASP F 140	74.692	84.229	52.578	1.00	42.88
ATOM	9927	C	ASP F 140	73.981	83.275	53.528	1.00	41.62
ATOM	9928	O	ASP F 140	73.557	83.668	54.615	1.00	40.65
ATOM	9929	CB	ASP F 140	76.150	84.377	53.026	1.00	45.03
ATOM	9930	CG	ASP F 140	77.000	85.148	52.036	1.00	44.43
ATOM	9931	OD1	ASP F 140	76.519	85.431	50.920	1.00	45.12
ATOM	9932	OD2	ASP F 140	78.159	85.461	52.383	1.00	40.12
ATOM	9933	N	ASP F 141	73.867	82.020	53.104	1.00	40.39
ATOM	9934	CA	ASP F 141	73.235	80.971	53.887	1.00	36.54
ATOM	9935	C	ASP F 141	74.067	79.709	53.693	1.00	35.89
ATOM	9936	O	ASP F 141	73.940	79.033	52.671	1.00	38.25
ATOM	9937	CB	ASP F 141	71.807	80.754	53.399	1.00	34.42
ATOM	9938	CG	ASP F 141	71.145	79.560	54.048	1.00	41.92
ATOM	9939	OD1	ASP F 141	71.369	78.419	53.590	1.00	49.57
ATOM	9940	OD2	ASP F 141	70.405	79.751	55.030	1.00	43.21
ATOM	9941	N	PHE F 142	74.922	79.402	54.669	1.00	33.48
ATOM	9942	CA	PHE F 142	75.801	78.235	54.598	1.00	33.55
ATOM	9943	C	PHE F 142	75.465	77.162	55.614	1.00	33.08
ATOM	9944	O	PHE F 142	75.040	77.474	56.731	1.00	33.62
ATOM	9945	CB	PHE F 142	77.240	78.664	54.821	1.00	36.25
ATOM	9946	CG	PHE F 142	77.704	79.713	53.870	1.00	35.10
ATOM	9947	CD1	PHE F 142	77.615	79.513	52.505	1.00	31.38
ATOM	9948	CD2	PHE F 142	78.250	80.900	54.344	1.00	37.01
ATOM	9949	CE1	PHE F 142	78.059	80.470	51.634	1.00	31.72
ATOM	9950	CE2	PHE F 142	78.699	81.864	53.473	1.00	30.35
ATOM	9951	CZ	PHE F 142	78.603	81.649	52.118	1.00	33.16
ATOM	9952	N	GLN F 143	75.690	75.903	55.234	1.00	28.86
ATOM	9953	CA	GLN F 143	75.388	74.785	56.114	1.00	24.19
ATOM	9954	C	GLN F 143	76.606	73.991	56.524	1.00	24.72
ATOM	9955	O	GLN F 143	77.408	73.565	55.688	1.00	27.83
ATOM	9956	CB	GLN F 143	74.384	73.850	55.461	1.00	17.97
ATOM	9957	CG	GLN F 143	73.078	74.488	55.162	1.00	29.15
ATOM	9958	CD	GLN F 143	71.960	73.476	55.168	1.00	41.72
ATOM	9959	OE1	GLN F 143	72.008	72.480	54.435	1.00	47.30
ATOM	9960	NE2	GLN F 143	70.940	73.713	56.001	1.00	41.71
ATOM	9961	N	PHE F 144	76.736	73.797	57.828	1.00	24.18
ATOM	9962	CA	PHE F 144	77.836	73.042	58.389	1.00	24.89
ATOM	9963	C	PHE F 144	77.270	71.699	58.790	1.00	25.72
ATOM	9964	O	PHE F 144	76.406	71.610	59.658	1.00	29.65
ATOM	9965	CB	PHE F 144	78.424	73.788	59.587	1.00	22.21
ATOM	9966	CG	PHE F 144	79.208	75.014	59.195	1.00	23.71
ATOM	9967	CD1	PHE F 144	78.564	76.122	58.648	1.00	20.85
ATOM	9968	CD2	PHE F 144	80.603	75.042	59.319	1.00	23.30
ATOM	9969	CE1	PHE F 144	79.292	77.234	58.229	1.00	20.98
ATOM	9970	CE2	PHE F 144	81.338	76.151	58.902	1.00	19.34
ATOM	9971	CZ	PHE F 144	80.682	77.249	58.357	1.00	20.89
ATOM	9972	N	VAL F 145	77.749	70.650	58.141	1.00	24.26
ATOM	9973	CA	VAL F 145	77.253	69.320	58.413	1.00	24.62
ATOM	9974	C	VAL F 145	78.121	68.440	59.324	1.00	25.90
ATOM	9975	O	VAL F 145	79.179	67.921	58.928	1.00	25.19
ATOM	9976	CB	VAL F 145	76.973	68.619	57.089	1.00	23.76
ATOM	9977	CG1	VAL F 145	76.735	67.140	57.309	1.00	30.17
ATOM	9978	CG2	VAL F 145	75.754	69.255	56.448	1.00	22.15
ATOM	9979	N	TRP F 146	77.647	68.257	60.555	1.00	25.08
ATOM	9980	CA	TRP F 146	78.373	67.455	61.531	1.00	23.07

ATOM	9981	C	TRP	F	146	77.881	66.018	61.563	1.00	21.17
ATOM	9982	O	TRP	F	146	76.692	65.766	61.749	1.00	19.17
ATOM	9983	CB	TRP	F	146	78.234	68.065	62.936	1.00	22.12
ATOM	9984	CG	TRP	F	146	78.503	69.507	62.954	1.00	9.29
ATOM	9985	CD1	TRP	F	146	77.589	70.505	62.842	1.00	9.50
ATOM	9986	CD2	TRP	F	146	79.778	70.119	62.922	1.00	5.90
ATOM	9987	NE1	TRP	F	146	78.217	71.711	62.723	1.00	12.21
ATOM	9988	CE2	TRP	F	146	79.569	71.506	62.769	1.00	10.05
ATOM	9989	CE3	TRP	F	146	81.084	69.633	62.998	1.00	10.10
ATOM	9990	CZ2	TRP	F	146	80.618	72.421	62.693	1.00	5.48
ATOM	9991	CZ3	TRP	F	146	82.141	70.543	62.923	1.00	12.59
ATOM	9992	CH2	TRP	F	146	81.895	71.924	62.771	1.00	11.06
ATOM	9993	N	ASN	F	147	78.815	65.088	61.389	1.00	18.00
ATOM	9994	CA	ASN	F	147	78.522	63.664	61.421	1.00	18.83
ATOM	9995	C	ASN	F	147	79.006	63.063	62.740	1.00	21.12
ATOM	9996	O	ASN	F	147	80.203	62.965	62.981	1.00	25.38
ATOM	9997	CB	ASN	F	147	79.216	62.950	60.258	1.00	13.00
ATOM	9998	CG	ASN	F	147	78.837	63.527	58.909	1.00	11.84
ATOM	9999	OD1	ASN	F	147	77.661	63.754	58.605	1.00	5.82
ATOM	10000	ND2	ASN	F	147	79.840	63.755	58.082	1.00	12.03
ATOM	10001	N	ILE	F	148	78.079	62.645	63.590	1.00	22.22
ATOM	10002	CA	ILE	F	148	78.445	62.069	64.877	1.00	21.72
ATOM	10003	C	ILE	F	148	78.682	60.561	64.832	1.00	21.36
ATOM	10004	O	ILE	F	148	77.774	59.780	64.565	1.00	16.47
ATOM	10005	CB	ILE	F	148	77.358	62.379	65.953	1.00	25.37
ATOM	10006	CG1	ILE	F	148	77.457	63.835	66.416	1.00	23.08
ATOM	10007	CG2	ILE	F	148	77.547	61.476	67.177	1.00	32.22
ATOM	10008	CD1	ILE	F	148	77.328	64.856	65.310	1.00	27.52
ATOM	10009	N	TYR	F	149	79.919	60.161	65.100	1.00	22.40
ATOM	10010	CA	TYR	F	149	80.288	58.749	65.117	1.00	22.14
ATOM	10011	C	TYR	F	149	80.579	58.291	66.534	1.00	22.25
ATOM	10012	O	TYR	F	149	81.300	58.954	67.276	1.00	24.31
ATOM	10013	CB	TYR	F	149	81.531	58.489	64.261	1.00	18.57
ATOM	10014	CG	TYR	F	149	81.259	58.391	62.787	1.00	23.33
ATOM	10015	CD1	TYR	F	149	80.987	59.532	62.020	1.00	22.73
ATOM	10016	CD2	TYR	F	149	81.262	57.151	62.149	1.00	25.14
ATOM	10017	CE1	TYR	F	149	80.722	59.442	60.648	1.00	22.26
ATOM	10018	CE2	TYR	F	149	81.000	57.050	60.777	1.00	29.63
ATOM	10019	CZ	TYR	F	149	80.733	58.198	60.035	1.00	27.80
ATOM	10020	OH	TYR	F	149	80.494	58.078	58.684	1.00	28.98
ATOM	10021	N	ALA	F	150	80.025	57.150	66.910	1.00	21.82
ATOM	10022	CA	ALA	F	150	80.262	56.623	68.238	1.00	21.12
ATOM	10023	C	ALA	F	150	81.570	55.840	68.241	1.00	20.45
ATOM	10024	O	ALA	F	150	81.779	54.981	67.390	1.00	16.68
ATOM	10025	CB	ALA	F	150	79.115	55.727	68.649	1.00	24.35
ATOM	10026	N	ASN	F	151	82.435	56.142	69.207	1.00	20.55
ATOM	10027	CA	ASN	F	151	83.730	55.482	69.340	1.00	22.02
ATOM	10028	C	ASN	F	151	83.675	54.134	70.050	1.00	23.47
ATOM	10029	O	ASN	F	151	84.589	53.316	69.913	1.00	23.35
ATOM	10030	CB	ASN	F	151	84.717	56.373	70.100	1.00	22.32
ATOM	10031	CG	ASN	F	151	85.362	57.418	69.229	1.00	24.75
ATOM	10032	OD1	ASN	F	151	85.669	57.176	68.064	1.00	28.73
ATOM	10033	ND2	ASN	F	151	85.595	58.588	69.798	1.00	29.50
ATOM	10034	N	ASN	F	152	82.620	53.910	70.825	1.00	24.55
ATOM	10035	CA	ASN	F	152	82.474	52.655	71.565	1.00	26.33
ATOM	10036	C	ASN	F	152	81.040	52.154	71.541	1.00	28.19
ATOM	10037	O	ASN	F	152	80.118	52.861	71.116	1.00	23.80
ATOM	10038	CB	ASN	F	152	82.861	52.855	73.018	1.00	20.28
ATOM	10039	CG	ASN	F	152	82.159	54.044	73.620	1.00	22.58
ATOM	10040	OD1	ASN	F	152	82.476	55.193	73.287	1.00	20.24
ATOM	10041	ND2	ASN	F	152	81.181	53.786	74.491	1.00	21.51
ATOM	10042	N	ASP	F	153	80.868	50.929	72.026	1.00	29.99

ATOM	10043	CA	ASP	F	153	79.554	50.314	72.101	1.00	31.01
ATOM	10044	C	ASP	F	153	78.829	50.935	73.274	1.00	30.85
ATOM	10045	O	ASP	F	153	79.446	51.212	74.296	1.00	32.89
ATOM	10046	CB	ASP	F	153	79.656	48.804	72.378	1.00	30.36
ATOM	10047	CG	ASP	F	153	80.104	48.010	71.182	1.00	32.61
ATOM	10048	OD1	ASP	F	153	79.485	48.159	70.109	1.00	41.75
ATOM	10049	OD2	ASP	F	153	81.061	47.222	71.310	1.00	31.59
ATOM	10050	N	VAL	F	154	77.532	51.166	73.125	1.00	30.55
ATOM	10051	CA	VAL	F	154	76.727	51.670	74.226	1.00	31.58
ATOM	10052	C	VAL	F	154	75.779	50.535	74.573	1.00	31.63
ATOM	10053	O	VAL	F	154	74.821	50.260	73.854	1.00	33.73
ATOM	10054	CB	VAL	F	154	75.923	52.914	73.847	1.00	33.82
ATOM	10055	CG1	VAL	F	154	74.784	53.117	74.841	1.00	30.87
ATOM	10056	CG2	VAL	F	154	76.834	54.127	73.853	1.00	35.86
ATOM	10057	N	VAL	F	155	76.083	49.864	75.674	1.00	32.69
ATOM	10058	CA	VAL	F	155	75.303	48.726	76.150	1.00	32.49
ATOM	10059	C	VAL	F	155	74.159	49.082	77.114	1.00	31.96
ATOM	10060	O	VAL	F	155	74.330	49.860	78.052	1.00	27.82
ATOM	10061	CB	VAL	F	155	76.236	47.689	76.824	1.00	31.51
ATOM	10062	CG1	VAL	F	155	75.492	46.939	77.900	1.00	33.02
ATOM	10063	CG2	VAL	F	155	76.795	46.720	75.774	1.00	25.55
ATOM	10064	N	VAL	F	156	72.989	48.506	76.847	1.00	31.22
ATOM	10065	CA	VAL	F	156	71.802	48.700	77.672	1.00	32.50
ATOM	10066	C	VAL	F	156	71.523	47.348	78.323	1.00	33.45
ATOM	10067	O	VAL	F	156	70.923	46.472	77.705	1.00	38.69
ATOM	10068	CB	VAL	F	156	70.595	49.089	76.820	1.00	33.01
ATOM	10069	CG1	VAL	F	156	69.342	49.057	77.664	1.00	30.91
ATOM	10070	CG2	VAL	F	156	70.804	50.462	76.228	1.00	33.15
ATOM	10071	N	PRO	F	157	71.934	47.170	79.589	1.00	31.42
ATOM	10072	CA	PRO	F	157	71.744	45.920	80.319	1.00	28.15
ATOM	10073	C	PRO	F	157	70.319	45.399	80.250	1.00	28.26
ATOM	10074	O	PRO	F	157	69.353	46.164	80.300	1.00	24.84
ATOM	10075	CB	PRO	F	157	72.150	46.292	81.735	1.00	29.29
ATOM	10076	CG	PRO	F	157	73.098	47.405	81.539	1.00	27.99
ATOM	10077	CD	PRO	F	157	72.383	48.218	80.514	1.00	30.61
ATOM	10078	N	THR	F	158	70.191	44.084	80.129	1.00	26.83
ATOM	10079	CA	THR	F	158	68.875	43.480	80.067	1.00	27.19
ATOM	10080	C	THR	F	158	68.297	43.430	81.475	1.00	27.20
ATOM	10081	O	THR	F	158	68.983	43.019	82.421	1.00	30.20
ATOM	10082	CB	THR	F	158	68.942	42.069	79.445	1.00	23.42
ATOM	10083	OG1	THR	F	158	67.827	41.297	79.887	1.00	22.62
ATOM	10084	CG2	THR	F	158	70.193	41.392	79.822	1.00	17.97
ATOM	10085	N	GLY	F	159	67.044	43.864	81.606	1.00	25.80
ATOM	10086	CA	GLY	F	159	66.389	43.896	82.903	1.00	25.88
ATOM	10087	C	GLY	F	159	65.706	42.622	83.346	1.00	25.39
ATOM	10088	O	GLY	F	159	65.760	41.596	82.669	1.00	27.18
ATOM	10089	N	GLY	F	160	65.052	42.674	84.496	1.00	22.74
ATOM	10090	CA	GLY	F	160	64.384	41.482	84.964	1.00	24.33
ATOM	10091	C	GLY	F	160	63.033	41.408	84.317	1.00	25.42
ATOM	10092	O	GLY	F	160	62.526	42.432	83.844	1.00	25.22
ATOM	10093	N	CYS	F	161	62.438	40.220	84.299	1.00	26.26
ATOM	10094	CA	CYS	F	161	61.123	40.063	83.691	1.00	31.61
ATOM	10095	C	CYS	F	161	59.971	40.561	84.584	1.00	33.31
ATOM	10096	O	CYS	F	161	60.186	40.931	85.740	1.00	35.04
ATOM	10097	CB	CYS	F	161	60.940	38.612	83.324	1.00	32.11
ATOM	10098	SG	CYS	F	161	62.356	37.993	82.369	1.00	42.24
ATOM	10099	N	ASP	F	162	58.750	40.606	84.054	1.00	34.36
ATOM	10100	CA	ASP	F	162	57.632	41.071	84.864	1.00	37.19
ATOM	10101	C	ASP	F	162	56.621	39.984	85.135	1.00	39.87
ATOM	10102	O	ASP	F	162	56.087	39.368	84.216	1.00	38.69
ATOM	10103	CB	ASP	F	162	56.928	42.256	84.217	1.00	39.27
ATOM	10104	CG	ASP	F	162	55.740	42.739	85.037	1.00	44.25

ATOM	10105	OD1	ASP	F	162	55.796	42.647	86.281	1.00	43.67
ATOM	10106	OD2	ASP	F	162	54.752	43.225	84.445	1.00	48.53
ATOM	10107	N	VAL	F	163	56.368	39.760	86.419	1.00	43.77
ATOM	10108	CA	VAL	F	163	55.440	38.740	86.851	1.00	49.06
ATOM	10109	C	VAL	F	163	54.065	39.309	87.109	1.00	54.99
ATOM	10110	O	VAL	F	163	53.751	39.716	88.218	1.00	56.01
ATOM	10111	CB	VAL	F	163	55.939	38.045	88.117	1.00	43.77
ATOM	10112	CG1	VAL	F	163	54.896	37.060	88.609	1.00	43.94
ATOM	10113	CG2	VAL	F	163	57.244	37.323	87.816	1.00	41.54
ATOM	10114	N	SER	F	164	53.248	39.337	86.065	1.00	63.35
ATOM	10115	CA	SER	F	164	51.891	39.844	86.173	1.00	70.30
ATOM	10116	C	SER	F	164	51.047	38.781	86.858	1.00	74.26
ATOM	10117	O	SER	F	164	51.126	37.592	86.521	1.00	74.65
ATOM	10118	CB	SER	F	164	51.310	40.137	84.783	1.00	73.06
ATOM	10119	OG	SER	F	164	52.084	41.087	84.069	1.00	76.63
ATOM	10120	N	ALA	F	165	50.238	39.213	87.819	1.00	78.33
ATOM	10121	CA	ALA	F	165	49.376	38.298	88.550	1.00	81.41
ATOM	10122	C	ALA	F	165	48.222	39.040	89.223	1.00	83.37
ATOM	10123	O	ALA	F	165	48.347	40.214	89.583	1.00	84.81
ATOM	10124	CB	ALA	F	165	50.198	37.541	89.596	1.00	80.40
ATOM	10125	N	ARG	F	166	47.095	38.355	89.375	1.00	85.26
ATOM	10126	CA	ARG	F	166	45.930	38.935	90.034	1.00	86.44
ATOM	10127	C	ARG	F	166	46.109	38.670	91.537	1.00	86.21
ATOM	10128	O	ARG	F	166	46.296	37.525	91.971	1.00	85.90
ATOM	10129	CB	ARG	F	166	44.656	38.289	89.479	1.00	88.48
ATOM	10130	CG	ARG	F	166	44.591	38.377	87.954	1.00	88.90
ATOM	10131	CD	ARG	F	166	43.411	37.621	87.355	1.00	90.46
ATOM	10132	NE	ARG	F	166	43.559	37.491	85.904	1.00	90.18
ATOM	10133	CZ	ARG	F	166	42.839	36.678	85.137	1.00	89.02
ATOM	10134	NH1	ARG	F	166	41.898	35.906	85.668	1.00	88.37
ATOM	10135	NH2	ARG	F	166	43.079	36.621	83.835	1.00	87.32
ATOM	10136	N	ASP	F	167	46.070	39.746	92.316	1.00	84.96
ATOM	10137	CA	ASP	F	167	46.285	39.692	93.758	1.00	83.60
ATOM	10138	C	ASP	F	167	45.585	38.582	94.509	1.00	81.52
ATOM	10139	O	ASP	F	167	44.686	37.936	93.978	1.00	81.94
ATOM	10140	CB	ASP	F	167	45.906	41.021	94.396	1.00	86.94
ATOM	10141	CG	ASP	F	167	46.609	41.243	95.715	1.00	90.13
ATOM	10142	OD1	ASP	F	167	47.484	40.418	96.056	1.00	91.38
ATOM	10143	OD2	ASP	F	167	46.298	42.240	96.402	1.00	92.14
ATOM	10144	N	VAL	F	168	46.014	38.391	95.758	1.00	79.29
ATOM	10145	CA	VAL	F	168	45.482	37.374	96.674	1.00	77.25
ATOM	10146	C	VAL	F	168	44.344	36.528	96.088	1.00	75.67
ATOM	10147	O	VAL	F	168	43.211	36.996	95.941	1.00	75.58
ATOM	10148	CB	VAL	F	168	45.021	38.029	98.019	1.00	75.79
ATOM	10149	CG1	VAL	F	168	44.147	39.236	97.737	1.00	76.43
ATOM	10150	CG2	VAL	F	168	44.278	37.015	98.880	1.00	70.57
ATOM	10151	N	THR	F	169	44.660	35.277	95.757	1.00	72.79
ATOM	10152	CA	THR	F	169	43.685	34.363	95.174	1.00	69.78
ATOM	10153	C	THR	F	169	42.710	33.799	96.196	1.00	68.49
ATOM	10154	O	THR	F	169	43.099	33.371	97.285	1.00	66.23
ATOM	10155	CB	THR	F	169	44.374	33.198	94.471	1.00	68.86
ATOM	10156	OG1	THR	F	169	45.221	33.710	93.438	1.00	71.72
ATOM	10157	CG2	THR	F	169	43.350	32.272	93.855	1.00	67.78
ATOM	10158	N	VAL	F	170	41.435	33.798	95.819	1.00	67.35
ATOM	10159	CA	VAL	F	170	40.369	33.308	96.678	1.00	65.58
ATOM	10160	C	VAL	F	170	40.195	31.799	96.511	1.00	65.18
ATOM	10161	O	VAL	F	170	39.411	31.335	95.681	1.00	65.47
ATOM	10162	CB	VAL	F	170	39.035	34.025	96.355	1.00	64.10
ATOM	10163	CG1	VAL	F	170	38.152	34.049	97.580	1.00	62.07
ATOM	10164	CG2	VAL	F	170	39.309	35.445	95.872	1.00	63.61
ATOM	10165	N	THR	F	171	40.948	31.041	97.300	1.00	64.12
ATOM	10166	CA	THR	F	171	40.891	29.588	97.259	1.00	64.01

ATOM	10167	C	THR	F	171	39.587	29.168	97.904	1.00	64.73
ATOM	10168	O	THR	F	171	39.424	28.019	98.317	1.00	66.58
ATOM	10169	CB	THR	F	171	42.082	28.947	98.035	1.00	62.65
ATOM	10170	OG1	THR	F	171	41.900	27.531	98.138	1.00	61.77
ATOM	10171	CG2	THR	F	171	42.164	29.496	99.422	1.00	61.98
ATOM	10172	N	LEU	F	172	38.650	30.106	97.972	1.00	64.35
ATOM	10173	CA	LEU	F	172	37.350	29.841	98.581	1.00	65.20
ATOM	10174	C	LEU	F	172	36.744	28.485	98.206	1.00	63.26
ATOM	10175	O	LEU	F	172	36.268	27.768	99.099	1.00	62.72
ATOM	10176	CB	LEU	F	172	36.355	30.973	98.250	1.00	66.83
ATOM	10177	CG	LEU	F	172	34.903	30.930	98.772	1.00	69.24
ATOM	10178	CD1	LEU	F	172	34.292	32.330	98.685	1.00	69.50
ATOM	10179	CD2	LEU	F	172	34.056	29.933	97.967	1.00	68.16
ATOM	10180	N	PRO	F	173	36.769	28.107	96.901	1.00	59.57
ATOM	10181	CA	PRO	F	173	36.184	26.815	96.542	1.00	59.34
ATOM	10182	C	PRO	F	173	36.144	25.888	97.744	1.00	60.62
ATOM	10183	O	PRO	F	173	37.113	25.191	98.029	1.00	63.45
ATOM	10184	CB	PRO	F	173	37.093	26.319	95.407	1.00	55.12
ATOM	10185	CG	PRO	F	173	38.249	27.266	95.396	1.00	53.10
ATOM	10186	CD	PRO	F	173	37.653	28.554	95.817	1.00	55.07
ATOM	10187	N	ASP	F	174	35.023	25.935	98.461	1.00	59.66
ATOM	10188	CA	ASP	F	174	34.811	25.148	99.662	1.00	60.54
ATOM	10189	C	ASP	F	174	35.716	23.928	99.693	1.00	60.04
ATOM	10190	O	ASP	F	174	35.806	23.192	98.707	1.00	57.93
ATOM	10191	CB	ASP	F	174	33.344	24.747	99.751	1.00	65.93
ATOM	10192	CG	ASP	F	174	32.422	25.951	99.843	1.00	68.31
ATOM	10193	OD1	ASP	F	174	32.493	26.823	98.950	1.00	67.98
ATOM	10194	OD2	ASP	F	174	31.633	26.023	100.811	1.00	70.91
ATOM	10195	N	TYR	F	175	36.379	23.735	100.836	1.00	58.33
ATOM	10196	CA	TYR	F	175	37.347	22.658	101.046	1.00	57.23
ATOM	10197	C	TYR	F	175	37.691	21.743	99.890	1.00	57.47
ATOM	10198	O	TYR	F	175	38.851	21.673	99.492	1.00	62.00
ATOM	10199	CB	TYR	F	175	36.973	21.770	102.220	1.00	55.33
ATOM	10200	CG	TYR	F	175	37.765	20.474	102.229	1.00	54.21
ATOM	10201	CD1	TYR	F	175	39.162	20.474	102.138	1.00	52.05
ATOM	10202	CD2	TYR	F	175	37.120	19.248	102.348	1.00	55.25
ATOM	10203	CE1	TYR	F	175	39.883	19.279	102.168	1.00	51.96
ATOM	10204	CE2	TYR	F	175	37.835	18.054	102.383	1.00	54.11
ATOM	10205	CZ	TYR	F	175	39.206	18.077	102.296	1.00	51.49
ATOM	10206	OH	TYR	F	175	39.882	16.889	102.364	1.00	50.13
ATOM	10207	N	PRO	F	176	36.711	20.993	99.360	1.00	54.05
ATOM	10208	CA	PRO	F	176	37.088	20.117	98.246	1.00	51.34
ATOM	10209	C	PRO	F	176	37.569	20.850	96.976	1.00	49.71
ATOM	10210	O	PRO	F	176	38.538	20.419	96.333	1.00	45.96
ATOM	10211	CB	PRO	F	176	35.822	19.297	98.024	1.00	48.83
ATOM	10212	CG	PRO	F	176	34.733	20.270	98.413	1.00	49.68
ATOM	10213	CD	PRO	F	176	35.281	20.853	99.682	1.00	50.73
ATOM	10214	N	GLY	F	177	36.902	21.961	96.650	1.00	48.18
ATOM	10215	CA	GLY	F	177	37.210	22.754	95.461	1.00	47.65
ATOM	10216	C	GLY	F	177	38.661	23.070	95.120	1.00	46.71
ATOM	10217	O	GLY	F	177	39.569	22.807	95.905	1.00	48.91
ATOM	10218	N	SER	F	178	38.887	23.632	93.934	1.00	43.24
ATOM	10219	CA	SER	F	178	40.239	23.977	93.516	1.00	40.67
ATOM	10220	C	SER	F	178	40.246	24.992	92.377	1.00	42.73
ATOM	10221	O	SER	F	178	39.733	24.719	91.304	1.00	44.08
ATOM	10222	CB	SER	F	178	40.984	22.730	93.069	1.00	36.11
ATOM	10223	OG	SER	F	178	40.705	22.440	91.716	1.00	25.51
ATOM	10224	N	VAL	F	179	40.841	26.159	92.610	1.00	44.73
ATOM	10225	CA	VAL	F	179	40.896	27.206	91.592	1.00	45.35
ATOM	10226	C	VAL	F	179	42.202	27.217	90.829	1.00	46.31
ATOM	10227	O	VAL	F	179	43.192	26.609	91.236	1.00	46.11
ATOM	10228	CB	VAL	F	179	40.761	28.640	92.183	1.00	44.27

ATOM	10229	CG1	VAL	F	179	39.400	28.847	92.798	1.00	47.33
ATOM	10230	CG2	VAL	F	179	41.848	28.879	93.208	1.00	44.27
ATOM	10231	N	PRO	F	180	42.199	27.895	89.677	1.00	47.52
ATOM	10232	CA	PRO	F	180	43.369	28.036	88.814	1.00	46.41
ATOM	10233	C	PRO	F	180	43.965	29.388	89.221	1.00	45.94
ATOM	10234	O	PRO	F	180	43.229	30.316	89.555	1.00	43.78
ATOM	10235	CB	PRO	F	180	42.760	28.039	87.419	1.00	46.15
ATOM	10236	CG	PRO	F	180	41.484	28.763	87.633	1.00	50.24
ATOM	10237	CD	PRO	F	180	40.961	28.197	88.932	1.00	49.38
ATOM	10238	N	ILE	F	181	45.290	29.486	89.232	1.00	45.89
ATOM	10239	CA	ILE	F	181	45.957	30.718	89.635	1.00	43.59
ATOM	10240	C	ILE	F	181	46.580	31.427	88.454	1.00	42.68
ATOM	10241	O	ILE	F	181	47.536	30.950	87.850	1.00	45.03
ATOM	10242	CB	ILE	F	181	47.082	30.455	90.664	1.00	43.78
ATOM	10243	CG1	ILE	F	181	46.522	29.788	91.920	1.00	43.21
ATOM	10244	CG2	ILE	F	181	47.737	31.759	91.046	1.00	42.82
ATOM	10245	CD1	ILE	F	181	47.601	29.340	92.883	1.00	39.75
ATOM	10246	N	PRO	F	182	46.037	32.584	88.101	1.00	40.41
ATOM	10247	CA	PRO	F	182	46.548	33.367	86.983	1.00	37.76
ATOM	10248	C	PRO	F	182	47.931	33.879	87.306	1.00	35.99
ATOM	10249	O	PRO	F	182	48.111	34.558	88.303	1.00	37.30
ATOM	10250	CB	PRO	F	182	45.550	34.498	86.895	1.00	37.62
ATOM	10251	CG	PRO	F	182	44.294	33.848	87.362	1.00	37.33
ATOM	10252	CD	PRO	F	182	44.760	33.130	88.572	1.00	39.12
ATOM	10253	N	LEU	F	183	48.912	33.553	86.477	1.00	36.80
ATOM	10254	CA	LEU	F	183	50.273	34.036	86.713	1.00	36.34
ATOM	10255	C	LEU	F	183	51.100	33.835	85.447	1.00	36.06
ATOM	10256	O	LEU	F	183	51.324	32.710	84.984	1.00	32.53
ATOM	10257	CB	LEU	F	183	50.907	33.299	87.904	1.00	38.11
ATOM	10258	CG	LEU	F	183	51.973	33.979	88.770	1.00	37.23
ATOM	10259	CD1	LEU	F	183	52.239	33.121	89.987	1.00	38.45
ATOM	10260	CD2	LEU	F	183	53.253	34.162	87.992	1.00	46.09
ATOM	10261	N	THR	F	184	51.536	34.954	84.885	1.00	36.87
ATOM	10262	CA	THR	F	184	52.326	34.956	83.663	1.00	36.93
ATOM	10263	C	THR	F	184	53.571	35.827	83.824	1.00	36.94
ATOM	10264	O	THR	F	184	53.659	36.642	84.739	1.00	36.82
ATOM	10265	CB	THR	F	184	51.483	35.500	82.499	1.00	37.32
ATOM	10266	OG1	THR	F	184	50.706	36.610	82.972	1.00	38.52
ATOM	10267	CG2	THR	F	184	50.540	34.436	81.957	1.00	30.65
ATOM	10268	N	VAL	F	185	54.532	35.649	82.931	1.00	37.40
ATOM	10269	CA	VAL	F	185	55.765	36.429	82.976	1.00	40.07
ATOM	10270	C	VAL	F	185	56.116	36.912	81.593	1.00	41.95
ATOM	10271	O	VAL	F	185	56.073	36.128	80.649	1.00	43.13
ATOM	10272	CB	VAL	F	185	56.971	35.592	83.446	1.00	38.37
ATOM	10273	CG1	VAL	F	185	56.907	35.385	84.916	1.00	44.32
ATOM	10274	CG2	VAL	F	185	56.989	34.256	82.734	1.00	33.98
ATOM	10275	N	TYR	F	186	56.455	38.188	81.455	1.00	41.54
ATOM	10276	CA	TYR	F	186	56.847	38.674	80.148	1.00	43.21
ATOM	10277	C	TYR	F	186	58.173	39.394	80.284	1.00	46.35
ATOM	10278	O	TYR	F	186	58.319	40.296	81.108	1.00	50.79
ATOM	10279	CB	TYR	F	186	55.772	39.575	79.538	1.00	39.18
ATOM	10280	CG	TYR	F	186	55.589	40.902	80.203	1.00	43.82
ATOM	10281	CD1	TYR	F	186	56.420	41.981	79.897	1.00	48.20
ATOM	10282	CD2	TYR	F	186	54.561	41.103	81.118	1.00	48.14
ATOM	10283	CE1	TYR	F	186	56.226	43.234	80.484	1.00	51.97
ATOM	10284	CE2	TYR	F	186	54.355	42.350	81.714	1.00	51.35
ATOM	10285	CZ	TYR	F	186	55.189	43.413	81.393	1.00	53.35
ATOM	10286	OH	TYR	F	186	54.982	44.647	81.981	1.00	56.61
ATOM	10287	N	CYS	F	187	59.157	38.954	79.507	1.00	45.02
ATOM	10288	CA	CYS	F	187	60.471	39.557	79.539	1.00	41.98
ATOM	10289	C	CYS	F	187	60.591	40.478	78.341	1.00	41.98
ATOM	10290	O	CYS	F	187	60.242	40.100	77.237	1.00	42.03

ATOM	10291	CB	CYS	F	187	61.549	38.486	79.444	1.00	42.32
ATOM	10292	SG	CYS	F	187	61.503	37.173	80.702	1.00	44.69
ATOM	10293	N	ALA	F	188	61.095	41.685	78.564	1.00	42.48
ATOM	10294	CA	ALA	F	188	61.277	42.659	77.493	1.00	38.09
ATOM	10295	C	ALA	F	188	62.223	42.100	76.456	1.00	34.88
ATOM	10296	O	ALA	F	188	62.083	42.373	75.277	1.00	38.17
ATOM	10297	CB	ALA	F	188	61.828	43.945	78.055	1.00	37.98
ATOM	10298	N	LYS	F	189	63.196	41.331	76.913	1.00	32.73
ATOM	10299	CA	LYS	F	189	64.163	40.696	76.035	1.00	35.67
ATOM	10300	C	LYS	F	189	64.164	39.227	76.425	1.00	39.36
ATOM	10301	O	LYS	F	189	64.405	38.873	77.585	1.00	41.52
ATOM	10302	CB	LYS	F	189	65.569	41.264	76.240	1.00	35.65
ATOM	10303	CG	LYS	F	189	65.679	42.760	76.051	1.00	40.41
ATOM	10304	CD	LYS	F	189	65.604	43.159	74.582	1.00	44.58
ATOM	10305	CE	LYS	F	189	66.890	42.820	73.834	1.00	45.79
ATOM	10306	NZ	LYS	F	189	66.724	42.873	72.348	1.00	46.34
ATOM	10307	N	SER	F	190	63.882	38.374	75.448	1.00	40.13
ATOM	10308	CA	SER	F	190	63.844	36.938	75.653	1.00	37.58
ATOM	10309	C	SER	F	190	65.042	36.392	76.432	1.00	37.85
ATOM	10310	O	SER	F	190	66.203	36.722	76.164	1.00	38.35
ATOM	10311	CB	SER	F	190	63.739	36.235	74.300	1.00	36.82
ATOM	10312	OG	SER	F	190	64.004	34.849	74.419	1.00	39.80
ATOM	10313	N	GLN	F	191	64.725	35.555	77.413	1.00	38.19
ATOM	10314	CA	GLN	F	191	65.706	34.905	78.271	1.00	34.99
ATOM	10315	C	GLN	F	191	65.040	33.709	78.940	1.00	32.36
ATOM	10316	O	GLN	F	191	63.815	33.635	79.046	1.00	28.58
ATOM	10317	CB	GLN	F	191	66.210	35.875	79.336	1.00	36.57
ATOM	10318	CG	GLN	F	191	65.093	36.583	80.079	1.00	39.85
ATOM	10319	CD	GLN	F	191	65.596	37.350	81.272	1.00	39.25
ATOM	10320	OE1	GLN	F	191	66.204	36.776	82.167	1.00	43.26
ATOM	10321	NE2	GLN	F	191	65.348	38.650	81.294	1.00	38.95
ATOM	10322	N	ASN	F	192	65.861	32.771	79.384	1.00	30.73
ATOM	10323	CA	ASN	F	192	65.364	31.586	80.046	1.00	33.57
ATOM	10324	C	ASN	F	192	65.029	31.817	81.526	1.00	34.07
ATOM	10325	O	ASN	F	192	65.850	32.310	82.302	1.00	36.27
ATOM	10326	CB	ASN	F	192	66.394	30.471	79.940	1.00	36.10
ATOM	10327	CG	ASN	F	192	66.713	30.116	78.512	1.00	43.86
ATOM	10328	OD1	ASN	F	192	65.813	30.024	77.674	1.00	45.85
ATOM	10329	ND2	ASN	F	192	67.999	29.892	78.222	1.00	48.99
ATOM	10330	N	LEU	F	193	63.815	31.464	81.917	1.00	30.70
ATOM	10331	CA	LEU	F	193	63.422	31.613	83.293	1.00	28.74
ATOM	10332	C	LEU	F	193	63.315	30.250	83.939	1.00	29.36
ATOM	10333	O	LEU	F	193	63.183	29.239	83.262	1.00	30.10
ATOM	10334	CB	LEU	F	193	62.077	32.327	83.400	1.00	28.00
ATOM	10335	CG	LEU	F	193	62.114	33.852	83.334	1.00	29.17
ATOM	10336	CD1	LEU	F	193	60.728	34.421	83.600	1.00	26.85
ATOM	10337	CD2	LEU	F	193	63.101	34.371	84.369	1.00	31.12
ATOM	10338	N	GLY	F	194	63.387	30.243	85.264	1.00	30.30
ATOM	10339	CA	GLY	F	194	63.260	29.028	86.046	1.00	27.16
ATOM	10340	C	GLY	F	194	62.669	29.434	87.385	1.00	26.13
ATOM	10341	O	GLY	F	194	63.105	30.429	87.973	1.00	24.03
ATOM	10342	N	TYR	F	195	61.671	28.707	87.879	1.00	25.13
ATOM	10343	CA	TYR	F	195	61.104	29.095	89.172	1.00	25.65
ATOM	10344	C	TYR	F	195	60.868	27.948	90.139	1.00	23.26
ATOM	10345	O	TYR	F	195	60.780	26.786	89.738	1.00	21.33
ATOM	10346	CB	TYR	F	195	59.795	29.854	88.986	1.00	23.54
ATOM	10347	CG	TYR	F	195	58.644	28.947	88.717	1.00	25.27
ATOM	10348	CD1	TYR	F	195	58.521	28.295	87.489	1.00	22.50
ATOM	10349	CD2	TYR	F	195	57.703	28.689	89.713	1.00	25.60
ATOM	10350	CE1	TYR	F	195	57.495	27.402	87.260	1.00	26.09
ATOM	10351	CE2	TYR	F	195	56.663	27.795	89.495	1.00	31.03
ATOM	10352	CZ	TYR	F	195	56.566	27.150	88.268	1.00	31.31

ATOM	10353	OH	TYR	F	195	55.565	26.229	88.066	1.00	33.86
ATOM	10354	N	TYR	F	196	60.811	28.300	91.423	1.00	21.91
ATOM	10355	CA	TYR	F	196	60.553	27.330	92.481	1.00	22.85
ATOM	10356	C	TYR	F	196	59.785	27.976	93.624	1.00	19.92
ATOM	10357	O	TYR	F	196	59.915	29.169	93.878	1.00	18.70
ATOM	10358	CB	TYR	F	196	61.850	26.686	92.995	1.00	24.47
ATOM	10359	CG	TYR	F	196	62.773	27.585	93.783	1.00	24.79
ATOM	10360	CD1	TYR	F	196	62.432	28.042	95.057	1.00	25.36
ATOM	10361	CD2	TYR	F	196	63.997	27.973	93.254	1.00	24.47
ATOM	10362	CE1	TYR	F	196	63.290	28.866	95.778	1.00	23.74
ATOM	10363	CE2	TYR	F	196	64.863	28.795	93.966	1.00	23.43
ATOM	10364	CZ	TYR	F	196	64.507	29.240	95.223	1.00	24.21
ATOM	10365	OH	TYR	F	196	65.366	30.067	95.906	1.00	22.44
ATOM	10366	N	LEU	F	197	58.961	27.169	94.285	1.00	19.26
ATOM	10367	CA	LEU	F	197	58.135	27.613	95.396	1.00	17.01
ATOM	10368	C	LEU	F	197	58.857	27.343	96.699	1.00	18.10
ATOM	10369	O	LEU	F	197	59.638	26.379	96.824	1.00	16.28
ATOM	10370	CB	LEU	F	197	56.816	26.855	95.391	1.00	17.56
ATOM	10371	CG	LEU	F	197	56.121	26.813	94.032	1.00	19.23
ATOM	10372	CD1	LEU	F	197	54.991	25.784	94.058	1.00	23.61
ATOM	10373	CD2	LEU	F	197	55.602	28.206	93.692	1.00	15.58
ATOM	10374	N	SER	F	198	58.597	28.214	97.662	1.00	18.30
ATOM	10375	CA	SER	F	198	59.194	28.116	98.985	1.00	17.63
ATOM	10376	C	SER	F	198	58.118	28.493	99.965	1.00	16.60
ATOM	10377	O	SER	F	198	57.274	29.340	99.684	1.00	14.48
ATOM	10378	CB	SER	F	198	60.378	29.072	99.128	1.00	15.19
ATOM	10379	OG	SER	F	198	60.004	30.395	98.790	1.00	23.33
ATOM	10380	N	GLY	F	199	58.152	27.847	101.119	1.00	18.70
ATOM	10381	CA	GLY	F	199	57.171	28.109	102.153	1.00	18.03
ATOM	10382	C	GLY	F	199	57.234	26.978	103.138	1.00	17.05
ATOM	10383	O	GLY	F	199	57.892	25.973	102.879	1.00	15.15
ATOM	10384	N	THR	F	200	56.569	27.129	104.273	1.00	19.52
ATOM	10385	CA	THR	F	200	56.593	26.059	105.264	1.00	22.21
ATOM	10386	C	THR	F	200	55.794	24.890	104.734	1.00	20.94
ATOM	10387	O	THR	F	200	54.754	25.055	104.103	1.00	21.18
ATOM	10388	CB	THR	F	200	55.997	26.472	106.594	1.00	22.82
ATOM	10389	OG1	THR	F	200	56.403	27.805	106.901	1.00	28.85
ATOM	10390	CG2	THR	F	200	56.500	25.560	107.666	1.00	20.88
ATOM	10391	N	THR	F	201	56.284	23.695	104.998	1.00	19.33
ATOM	10392	CA	THR	F	201	55.606	22.535	104.496	1.00	18.68
ATOM	10393	C	THR	F	201	55.081	21.690	105.628	1.00	17.43
ATOM	10394	O	THR	F	201	55.451	21.893	106.774	1.00	21.23
ATOM	10395	CB	THR	F	201	56.536	21.779	103.561	1.00	19.59
ATOM	10396	OG1	THR	F	201	56.110	22.038	102.216	1.00	18.74
ATOM	10397	CG2	THR	F	201	56.559	20.288	103.858	1.00	18.50
ATOM	10398	N	ALA	F	202	54.207	20.753	105.308	1.00	12.35
ATOM	10399	CA	ALA	F	202	53.613	19.947	106.323	1.00	12.18
ATOM	10400	C	ALA	F	202	53.635	18.447	106.041	1.00	13.66
ATOM	10401	O	ALA	F	202	53.003	17.674	106.758	1.00	16.79
ATOM	10402	CB	ALA	F	202	52.187	20.425	106.508	1.00	12.75
ATOM	10403	N	ASP	F	203	54.344	18.014	105.010	1.00	12.94
ATOM	10404	CA	ASP	F	203	54.339	16.594	104.674	1.00	11.37
ATOM	10405	C	ASP	F	203	55.706	16.084	104.337	1.00	10.17
ATOM	10406	O	ASP	F	203	56.575	16.872	104.032	1.00	15.07
ATOM	10407	CB	ASP	F	203	53.393	16.340	103.497	1.00	14.59
ATOM	10408	CG	ASP	F	203	53.841	17.022	102.204	1.00	19.92
ATOM	10409	OD1	ASP	F	203	54.025	18.266	102.189	1.00	17.17
ATOM	10410	OD2	ASP	F	203	53.989	16.292	101.196	1.00	19.51
ATOM	10411	N	ALA	F	204	55.916	14.776	104.387	1.00	9.17
ATOM	10412	CA	ALA	F	204	57.237	14.239	104.055	1.00	9.49
ATOM	10413	C	ALA	F	204	57.618	14.544	102.622	1.00	13.58
ATOM	10414	O	ALA	F	204	58.790	14.795	102.332	1.00	17.23

ATOM	10415	CB	ALA	F	204	57.287	12.764	104.262	1.00	7.77
ATOM	10416	N	GLY	F	205	56.629	14.526	101.728	1.00	14.32
ATOM	10417	CA	GLY	F	205	56.878	14.814	100.327	1.00	13.60
ATOM	10418	C	GLY	F	205	57.067	16.285	100.005	1.00	13.00
ATOM	10419	O	GLY	F	205	57.171	16.662	98.840	1.00	12.77
ATOM	10420	N	ASN	F	206	57.067	17.115	101.041	1.00	13.82
ATOM	10421	CA	ASN	F	206	57.294	18.558	100.922	1.00	17.41
ATOM	10422	C	ASN	F	206	56.425	19.337	99.934	1.00	18.21
ATOM	10423	O	ASN	F	206	56.852	20.372	99.429	1.00	17.35
ATOM	10424	CB	ASN	F	206	58.764	18.802	100.567	1.00	15.53
ATOM	10425	CG	ASN	F	206	59.215	20.216	100.863	1.00	17.18
ATOM	10426	OD1	ASN	F	206	60.183	20.698	100.279	1.00	26.58
ATOM	10427	ND2	ASN	F	206	58.537	20.880	101.783	1.00	10.20
ATOM	10428	N	SER	F	207	55.205	18.888	99.675	1.00	18.82
ATOM	10429	CA	SER	F	207	54.393	19.602	98.702	1.00	21.16
ATOM	10430	C	SER	F	207	53.106	20.218	99.194	1.00	22.18
ATOM	10431	O	SER	F	207	52.458	20.946	98.451	1.00	22.44
ATOM	10432	CB	SER	F	207	54.093	18.697	97.506	1.00	21.89
ATOM	10433	OG	SER	F	207	53.627	17.432	97.935	1.00	29.06
ATOM	10434	N	ILE	F	208	52.725	19.945	100.436	1.00	25.69
ATOM	10435	CA	ILE	F	208	51.491	20.522	100.974	1.00	25.75
ATOM	10436	C	ILE	F	208	51.843	21.651	101.946	1.00	29.25
ATOM	10437	O	ILE	F	208	52.401	21.410	103.025	1.00	31.30
ATOM	10438	CB	ILE	F	208	50.652	19.454	101.680	1.00	20.29
ATOM	10439	CG1	ILE	F	208	50.556	18.220	100.782	1.00	20.86
ATOM	10440	CG2	ILE	F	208	49.276	19.998	101.964	1.00	13.42
ATOM	10441	CD1	ILE	F	208	50.028	17.003	101.466	1.00	23.10
ATOM	10442	N	PHE	F	209	51.531	22.884	101.545	1.00	30.26
ATOM	10443	CA	PHE	F	209	51.831	24.060	102.355	1.00	31.64
ATOM	10444	C	PHE	F	209	50.864	24.279	103.510	1.00	35.13
ATOM	10445	O	PHE	F	209	49.645	24.300	103.336	1.00	37.23
ATOM	10446	CB	PHE	F	209	51.898	25.301	101.464	1.00	27.33
ATOM	10447	CG	PHE	F	209	53.052	25.285	100.495	1.00	22.37
ATOM	10448	CD1	PHE	F	209	54.307	25.741	100.878	1.00	22.16
ATOM	10449	CD2	PHE	F	209	52.891	24.804	99.213	1.00	23.95
ATOM	10450	CE1	PHE	F	209	55.377	25.719	99.999	1.00	22.63
ATOM	10451	CE2	PHE	F	209	53.967	24.777	98.316	1.00	25.62
ATOM	10452	CZ	PHE	F	209	55.208	25.236	98.715	1.00	24.15
ATOM	10453	N	THR	F	210	51.435	24.444	104.697	1.00	38.45
ATOM	10454	CA	THR	F	210	50.676	24.618	105.923	1.00	41.11
ATOM	10455	C	THR	F	210	49.622	25.697	105.890	1.00	42.32
ATOM	10456	O	THR	F	210	49.722	26.641	105.118	1.00	42.01
ATOM	10457	CB	THR	F	210	51.612	24.906	107.081	1.00	41.40
ATOM	10458	OG1	THR	F	210	52.649	23.924	107.093	1.00	43.91
ATOM	10459	CG2	THR	F	210	50.859	24.828	108.398	1.00	47.07
ATOM	10460	N	ASN	F	211	48.612	25.549	106.749	1.00	45.97
ATOM	10461	CA	ASN	F	211	47.525	26.514	106.837	1.00	48.17
ATOM	10462	C	ASN	F	211	47.871	27.594	107.834	1.00	49.62
ATOM	10463	O	ASN	F	211	48.095	27.319	109.006	1.00	48.62
ATOM	10464	CB	ASN	F	211	46.218	25.841	107.266	1.00	49.84
ATOM	10465	CG	ASN	F	211	44.996	26.735	107.044	1.00	51.66
ATOM	10466	OD1	ASN	F	211	43.858	26.308	107.250	1.00	51.30
ATOM	10467	ND2	ASN	F	211	45.231	27.980	106.620	1.00	47.19
ATOM	10468	N	THR	F	212	47.922	28.825	107.341	1.00	54.39
ATOM	10469	CA	THR	F	212	48.230	30.000	108.143	1.00	58.14
ATOM	10470	C	THR	F	212	46.930	30.768	108.286	1.00	62.63
ATOM	10471	O	THR	F	212	46.415	31.293	107.299	1.00	65.06
ATOM	10472	CB	THR	F	212	49.229	30.900	107.423	1.00	55.62
ATOM	10473	OG1	THR	F	212	50.513	30.271	107.401	1.00	50.72
ATOM	10474	CG2	THR	F	212	49.317	32.244	108.113	1.00	60.16
ATOM	10475	N	ALA	F	213	46.394	30.844	109.497	1.00	66.03
ATOM	10476	CA	ALA	F	213	45.139	31.550	109.672	1.00	69.34

ATOM	10477	C	ALA	F	213	44.879	32.022	111.095	1.00	72.65
ATOM	10478	O	ALA	F	213	45.517	31.572	112.047	1.00	74.94
ATOM	10479	CB	ALA	F	213	44.008	30.667	109.203	1.00	67.63
ATOM	10480	N	SER	F	214	43.929	32.938	111.229	1.00	75.20
ATOM	10481	CA	SER	F	214	43.572	33.473	112.530	1.00	78.98
ATOM	10482	C	SER	F	214	42.280	32.860	113.077	1.00	81.39
ATOM	10483	O	SER	F	214	42.209	32.549	114.263	1.00	82.80
ATOM	10484	CB	SER	F	214	43.432	34.998	112.449	1.00	80.47
ATOM	10485	OG	SER	F	214	43.233	35.582	113.729	1.00	81.47
ATOM	10486	N	PHE	F	215	41.271	32.666	112.227	1.00	83.82
ATOM	10487	CA	PHE	F	215	40.001	32.109	112.696	1.00	86.85
ATOM	10488	C	PHE	F	215	39.698	30.637	112.447	1.00	86.87
ATOM	10489	O	PHE	F	215	39.381	30.222	111.326	1.00	85.22
ATOM	10490	CB	PHE	F	215	38.838	32.920	112.154	1.00	92.70
ATOM	10491	CG	PHE	F	215	37.518	32.613	112.824	1.00	100.25
ATOM	10492	CD1	PHE	F	215	37.449	32.432	114.207	1.00	103.22
ATOM	10493	CD2	PHE	F	215	36.342	32.523	112.080	1.00	102.31
ATOM	10494	CE1	PHE	F	215	36.230	32.166	114.842	1.00	104.50
ATOM	10495	CE2	PHE	F	215	35.117	32.257	112.704	1.00	103.78
ATOM	10496	CZ	PHE	F	215	35.063	32.077	114.087	1.00	104.55
ATOM	10497	N	SER	F	216	39.749	29.869	113.532	1.00	86.58
ATOM	10498	CA	SER	F	216	39.484	28.442	113.501	1.00	86.02
ATOM	10499	C	SER	F	216	40.294	27.764	112.422	1.00	83.63
ATOM	10500	O	SER	F	216	39.827	27.570	111.297	1.00	83.66
ATOM	10501	CB	SER	F	216	38.003	28.170	113.258	1.00	89.98
ATOM	10502	OG	SER	F	216	37.773	26.772	113.155	1.00	93.65
ATOM	10503	N	PRO	F	217	41.530	27.394	112.748	1.00	81.32
ATOM	10504	CA	PRO	F	217	42.360	26.732	111.750	1.00	79.67
ATOM	10505	C	PRO	F	217	41.776	25.379	111.361	1.00	77.29
ATOM	10506	O	PRO	F	217	42.042	24.379	112.024	1.00	77.22
ATOM	10507	CB	PRO	F	217	43.704	26.602	112.458	1.00	80.72
ATOM	10508	CG	PRO	F	217	43.302	26.431	113.893	1.00	79.35
ATOM	10509	CD	PRO	F	217	42.231	27.484	114.040	1.00	81.29
ATOM	10510	N	ALA	F	218	40.967	25.363	110.305	1.00	73.45
ATOM	10511	CA	ALA	F	218	40.374	24.130	109.813	1.00	69.33
ATOM	10512	C	ALA	F	218	41.498	23.109	109.694	1.00	67.61
ATOM	10513	O	ALA	F	218	41.996	22.846	108.608	1.00	69.57
ATOM	10514	CB	ALA	F	218	39.750	24.369	108.455	1.00	67.34
ATOM	10515	N	GLN	F	219	41.903	22.539	110.816	1.00	66.21
ATOM	10516	CA	GLN	F	219	42.985	21.567	110.836	1.00	66.66
ATOM	10517	C	GLN	F	219	42.715	20.367	109.938	1.00	63.74
ATOM	10518	O	GLN	F	219	41.579	19.907	109.832	1.00	63.88
ATOM	10519	CB	GLN	F	219	43.218	21.078	112.267	1.00	70.94
ATOM	10520	CG	GLN	F	219	44.321	20.039	112.393	1.00	77.75
ATOM	10521	CD	GLN	F	219	44.401	19.446	113.783	1.00	82.65
ATOM	10522	OE1	GLN	F	219	45.229	18.572	114.059	1.00	87.05
ATOM	10523	NE2	GLN	F	219	43.534	19.917	114.672	1.00	85.81
ATOM	10524	N	GLY	F	220	43.769	19.868	109.294	1.00	60.35
ATOM	10525	CA	GLY	F	220	43.636	18.701	108.434	1.00	54.04
ATOM	10526	C	GLY	F	220	43.990	18.882	106.969	1.00	48.93
ATOM	10527	O	GLY	F	220	44.465	17.944	106.314	1.00	44.99
ATOM	10528	N	VAL	F	221	43.766	20.088	106.461	1.00	44.86
ATOM	10529	CA	VAL	F	221	44.037	20.388	105.068	1.00	43.72
ATOM	10530	C	VAL	F	221	45.318	21.194	104.862	1.00	40.12
ATOM	10531	O	VAL	F	221	46.037	21.482	105.801	1.00	41.73
ATOM	10532	CB	VAL	F	221	42.862	21.165	104.455	1.00	45.45
ATOM	10533	CG1	VAL	F	221	42.912	21.068	102.933	1.00	48.20
ATOM	10534	CG2	VAL	F	221	41.553	20.613	104.982	1.00	45.47
ATOM	10535	N	GLY	F	222	45.592	21.535	103.611	1.00	36.25
ATOM	10536	CA	GLY	F	222	46.760	22.319	103.266	1.00	31.67
ATOM	10537	C	GLY	F	222	46.630	22.717	101.810	1.00	27.78
ATOM	10538	O	GLY	F	222	45.792	22.185	101.092	1.00	27.86

ATOM	10539	N	VAL	F	223	47.442	23.654	101.359	1.00	24.49
ATOM	10540	CA	VAL	F	223	47.374	24.065	99.969	1.00	21.55
ATOM	10541	C	VAL	F	223	48.521	23.461	99.150	1.00	19.25
ATOM	10542	O	VAL	F	223	49.688	23.602	99.499	1.00	19.85
ATOM	10543	CB	VAL	F	223	47.433	25.602	99.849	1.00	21.95
ATOM	10544	CG1	VAL	F	223	47.220	26.011	98.392	1.00	21.79
ATOM	10545	CG2	VAL	F	223	46.388	26.241	100.754	1.00	18.13
ATOM	10546	N	GLN	F	224	48.187	22.777	98.070	1.00	16.74
ATOM	10547	CA	GLN	F	224	49.203	22.181	97.212	1.00	19.87
ATOM	10548	C	GLN	F	224	49.041	22.788	95.831	1.00	22.66
ATOM	10549	O	GLN	F	224	47.917	22.886	95.337	1.00	25.52
ATOM	10550	CB	GLN	F	224	49.015	20.667	97.138	1.00	18.38
ATOM	10551	CG	GLN	F	224	49.908	19.954	96.131	1.00	18.19
ATOM	10552	CD	GLN	F	224	49.902	18.446	96.340	1.00	25.87
ATOM	10553	OE1	GLN	F	224	50.632	17.919	97.174	1.00	31.78
ATOM	10554	NE2	GLN	F	224	49.057	17.748	95.599	1.00	31.90
ATOM	10555	N	LEU	F	225	50.142	23.208	95.206	1.00	22.27
ATOM	10556	CA	LEU	F	225	50.035	23.809	93.879	1.00	18.08
ATOM	10557	C	LEU	F	225	50.455	22.842	92.816	1.00	17.37
ATOM	10558	O	LEU	F	225	51.428	22.109	92.953	1.00	17.11
ATOM	10559	CB	LEU	F	225	50.853	25.099	93.780	1.00	16.92
ATOM	10560	CG	LEU	F	225	50.597	26.059	94.947	1.00	20.00
ATOM	10561	CD1	LEU	F	225	51.115	27.419	94.597	1.00	21.13
ATOM	10562	CD2	LEU	F	225	49.115	26.126	95.273	1.00	18.95
ATOM	10563	N	THR	F	226	49.691	22.847	91.741	1.00	22.32
ATOM	10564	CA	THR	F	226	49.939	21.951	90.631	1.00	25.55
ATOM	10565	C	THR	F	226	49.994	22.747	89.336	1.00	24.12
ATOM	10566	O	THR	F	226	49.290	23.752	89.191	1.00	24.61
ATOM	10567	CB	THR	F	226	48.807	20.935	90.563	1.00	28.08
ATOM	10568	OG1	THR	F	226	48.937	20.153	89.376	1.00	37.69
ATOM	10569	CG2	THR	F	226	47.465	21.661	90.562	1.00	26.05
ATOM	10570	N	ARG	F	227	50.850	22.317	88.416	1.00	22.72
ATOM	10571	CA	ARG	F	227	50.973	22.976	87.122	1.00	25.16
ATOM	10572	C	ARG	F	227	50.554	21.945	86.084	1.00	29.27
ATOM	10573	O	ARG	F	227	51.314	21.031	85.765	1.00	27.78
ATOM	10574	CB	ARG	F	227	52.410	23.437	86.877	1.00	18.97
ATOM	10575	CG	ARG	F	227	53.464	22.364	86.998	1.00	18.64
ATOM	10576	CD	ARG	F	227	54.834	22.900	86.632	1.00	24.34
ATOM	10577	NE	ARG	F	227	55.708	21.838	86.144	1.00	27.65
ATOM	10578	CZ	ARG	F	227	56.480	21.092	86.919	1.00	35.27
ATOM	10579	NH1	ARG	F	227	56.499	21.298	88.231	1.00	42.47
ATOM	10580	NH2	ARG	F	227	57.208	20.117	86.389	1.00	35.92
ATOM	10581	N	ASN	F	228	49.323	22.081	85.585	1.00	34.78
ATOM	10582	CA	ASN	F	228	48.777	21.137	84.608	1.00	37.77
ATOM	10583	C	ASN	F	228	48.804	19.704	85.144	1.00	37.00
ATOM	10584	O	ASN	F	228	49.360	18.807	84.506	1.00	39.23
ATOM	10585	CB	ASN	F	228	49.573	21.202	83.303	1.00	42.62
ATOM	10586	CG	ASN	F	228	49.260	22.438	82.497	1.00	46.13
ATOM	10587	OD1	ASN	F	228	48.154	22.596	81.997	1.00	48.13
ATOM	10588	ND2	ASN	F	228	50.236	23.327	82.370	1.00	52.28
ATOM	10589	N	GLY	F	229	48.223	19.499	86.322	1.00	34.70
ATOM	10590	CA	GLY	F	229	48.185	18.166	86.907	1.00	34.12
ATOM	10591	C	GLY	F	229	49.460	17.657	87.562	1.00	31.63
ATOM	10592	O	GLY	F	229	49.455	16.613	88.224	1.00	28.39
ATOM	10593	N	THR	F	230	50.557	18.381	87.369	1.00	30.31
ATOM	10594	CA	THR	F	230	51.831	18.003	87.966	1.00	27.76
ATOM	10595	C	THR	F	230	52.046	18.740	89.275	1.00	27.69
ATOM	10596	O	THR	F	230	51.893	19.971	89.350	1.00	24.95
ATOM	10597	CB	THR	F	230	52.979	18.339	87.050	1.00	27.34
ATOM	10598	OG1	THR	F	230	52.863	17.554	85.866	1.00	34.35
ATOM	10599	CG2	THR	F	230	54.289	18.033	87.707	1.00	27.40
ATOM	10600	N	ILE	F	231	52.392	17.980	90.311	1.00	26.53

ATOM	10601	CA	ILE F 231	52.630	18.573	91.616	1.00	24.19
ATOM	10602	C	ILE F 231	53.950	19.327	91.640	1.00	23.79
ATOM	10603	O	ILE F 231	54.935	18.926	90.993	1.00	23.11
ATOM	10604	CB	ILE F 231	52.661	17.520	92.731	1.00	22.28
ATOM	10605	CG1	ILE F 231	51.304	16.824	92.830	1.00	22.74
ATOM	10606	CG2	ILE F 231	53.000	18.186	94.065	1.00	22.17
ATOM	10607	CD1	ILE F 231	51.185	15.865	94.009	1.00	21.00
ATOM	10608	N	ILE F 232	53.955	20.428	92.389	1.00	20.81
ATOM	10609	CA	ILE F 232	55.138	21.260	92.525	1.00	19.19
ATOM	10610	C	ILE F 232	55.639	21.278	93.971	1.00	15.33
ATOM	10611	O	ILE F 232	55.182	22.071	94.778	1.00	14.54
ATOM	10612	CB	ILE F 232	54.848	22.719	92.102	1.00	19.55
ATOM	10613	CG1	ILE F 232	54.140	22.750	90.757	1.00	21.97
ATOM	10614	CG2	ILE F 232	56.139	23.489	91.950	1.00	22.32
ATOM	10615	CD1	ILE F 232	53.851	24.145	90.291	1.00	18.72
ATOM	10616	N	PRO F 233	56.570	20.384	94.324	1.00	13.57
ATOM	10617	CA	PRO F 233	57.016	20.463	95.714	1.00	13.56
ATOM	10618	C	PRO F 233	57.868	21.711	95.894	1.00	14.58
ATOM	10619	O	PRO F 233	58.325	22.311	94.921	1.00	10.92
ATOM	10620	CB	PRO F 233	57.827	19.186	95.894	1.00	13.00
ATOM	10621	CG	PRO F 233	58.282	18.879	94.486	1.00	12.51
ATOM	10622	CD	PRO F 233	57.087	19.175	93.665	1.00	9.11
ATOM	10623	N	ALA F 234	58.073	22.097	97.148	1.00	16.35
ATOM	10624	CA	ALA F 234	58.875	23.264	97.475	1.00	13.19
ATOM	10625	C	ALA F 234	60.300	23.030	97.020	1.00	14.12
ATOM	10626	O	ALA F 234	60.789	21.895	97.054	1.00	11.42
ATOM	10627	CB	ALA F 234	58.846	23.490	98.948	1.00	7.90
ATOM	10628	N	ASN F 235	60.957	24.096	96.570	1.00	14.35
ATOM	10629	CA	ASN F 235	62.351	23.997	96.150	1.00	17.70
ATOM	10630	C	ASN F 235	62.628	22.935	95.093	1.00	17.42
ATOM	10631	O	ASN F 235	63.487	22.094	95.280	1.00	17.03
ATOM	10632	CB	ASN F 235	63.225	23.692	97.369	1.00	18.91
ATOM	10633	CG	ASN F 235	62.831	24.504	98.589	1.00	20.38
ATOM	10634	OD1	ASN F 235	62.380	23.953	99.612	1.00	18.11
ATOM	10635	ND2	ASN F 235	62.991	25.827	98.488	1.00	19.83
ATOM	10636	N	ASN F 236	61.905	22.974	93.986	1.00	21.07
ATOM	10637	CA	ASN F 236	62.084	22.008	92.900	1.00	21.98
ATOM	10638	C	ASN F 236	61.914	22.856	91.664	1.00	22.61
ATOM	10639	O	ASN F 236	60.833	22.927	91.102	1.00	22.17
ATOM	10640	CB	ASN F 236	60.985	20.943	92.956	1.00	27.19
ATOM	10641	CG	ASN F 236	61.138	19.876	91.888	1.00	24.87
ATOM	10642	OD1	ASN F 236	62.089	19.106	91.894	1.00	25.60
ATOM	10643	ND2	ASN F 236	60.185	19.820	90.974	1.00	26.68
ATOM	10644	N	THR F 237	62.990	23.513	91.266	1.00	22.53
ATOM	10645	CA	THR F 237	62.980	24.412	90.134	1.00	23.09
ATOM	10646	C	THR F 237	62.276	23.841	88.930	1.00	23.30
ATOM	10647	O	THR F 237	62.545	22.723	88.531	1.00	25.19
ATOM	10648	CB	THR F 237	64.402	24.776	89.743	1.00	23.82
ATOM	10649	OG1	THR F 237	65.178	24.996	90.930	1.00	28.33
ATOM	10650	CG2	THR F 237	64.406	26.040	88.915	1.00	24.06
ATOM	10651	N	VAL F 238	61.365	24.619	88.360	1.00	24.34
ATOM	10652	CA	VAL F 238	60.615	24.218	87.171	1.00	26.23
ATOM	10653	C	VAL F 238	61.091	25.082	85.990	1.00	26.42
ATOM	10654	O	VAL F 238	60.918	26.303	86.000	1.00	26.47
ATOM	10655	CB	VAL F 238	59.076	24.446	87.356	1.00	27.48
ATOM	10656	CG1	VAL F 238	58.349	24.218	86.050	1.00	29.12
ATOM	10657	CG2	VAL F 238	58.518	23.516	88.384	1.00	27.20
ATOM	10658	N	SER F 239	61.689	24.454	84.983	1.00	24.93
ATOM	10659	CA	SER F 239	62.170	25.190	83.817	1.00	27.25
ATOM	10660	C	SER F 239	61.017	25.713	83.018	1.00	25.41
ATOM	10661	O	SER F 239	60.220	24.943	82.519	1.00	27.21
ATOM	10662	CB	SER F 239	63.001	24.298	82.916	1.00	29.80

ATOM	10663	OG	SER F 239	64.081	23.740	83.639	1.00	42.86
ATOM	10664	N	LEU F 240	60.937	27.029	82.888	1.00	27.32
ATOM	10665	CA	LEU F 240	59.860	27.670	82.142	1.00	26.47
ATOM	10666	C	LEU F 240	60.230	27.894	80.678	1.00	29.76
ATOM	10667	O	LEU F 240	59.464	28.502	79.923	1.00	29.32
ATOM	10668	CB	LEU F 240	59.527	29.013	82.769	1.00	21.73
ATOM	10669	CG	LEU F 240	58.137	29.086	83.372	1.00	20.84
ATOM	10670	CD1	LEU F 240	57.834	30.508	83.790	1.00	21.02
ATOM	10671	CD2	LEU F 240	57.139	28.606	82.366	1.00	21.23
ATOM	10672	N	GLY F 241	61.406	27.397	80.293	1.00	30.78
ATOM	10673	CA	GLY F 241	61.877	27.551	78.934	1.00	33.18
ATOM	10674	C	GLY F 241	62.507	28.916	78.770	1.00	35.55
ATOM	10675	O	GLY F 241	63.512	29.219	79.395	1.00	39.27
ATOM	10676	N	ALA F 242	61.926	29.745	77.921	1.00	35.66
ATOM	10677	CA	ALA F 242	62.452	31.074	77.726	1.00	35.70
ATOM	10678	C	ALA F 242	61.239	31.941	77.557	1.00	37.09
ATOM	10679	O	ALA F 242	60.415	31.705	76.677	1.00	34.10
ATOM	10680	CB	ALA F 242	63.319	31.134	76.486	1.00	34.48
ATOM	10681	N	VAL F 243	61.113	32.931	78.428	1.00	38.14
ATOM	10682	CA	VAL F 243	59.993	33.835	78.355	1.00	36.62
ATOM	10683	C	VAL F 243	60.401	35.004	77.493	1.00	37.84
ATOM	10684	O	VAL F 243	61.532	35.470	77.575	1.00	37.10
ATOM	10685	CB	VAL F 243	59.612	34.347	79.726	1.00	36.11
ATOM	10686	CG1	VAL F 243	58.355	35.181	79.611	1.00	36.04
ATOM	10687	CG2	VAL F 243	59.416	33.182	80.672	1.00	32.47
ATOM	10688	N	GLY F 244	59.471	35.469	76.666	1.00	40.37
ATOM	10689	CA	GLY F 244	59.743	36.581	75.783	1.00	39.38
ATOM	10690	C	GLY F 244	58.709	37.674	75.905	1.00	41.18
ATOM	10691	O	GLY F 244	58.255	37.989	77.006	1.00	38.11
ATOM	10692	N	THR F 245	58.328	38.246	74.763	1.00	45.94
ATOM	10693	CA	THR F 245	57.353	39.340	74.722	1.00	48.69
ATOM	10694	C	THR F 245	55.931	38.866	75.004	1.00	48.65
ATOM	10695	O	THR F 245	55.063	39.673	75.320	1.00	49.84
ATOM	10696	CB	THR F 245	57.370	40.054	73.352	1.00	49.26
ATOM	10697	OG1	THR F 245	56.686	39.250	72.380	1.00	55.00
ATOM	10698	CG2	THR F 245	58.802	40.268	72.890	1.00	46.91
ATOM	10699	N	SER F 246	55.707	37.557	74.884	1.00	49.80
ATOM	10700	CA	SER F 246	54.396	36.945	75.123	1.00	48.58
ATOM	10701	C	SER F 246	54.368	36.261	76.481	1.00	45.04
ATOM	10702	O	SER F 246	54.934	35.186	76.649	1.00	44.83
ATOM	10703	CB	SER F 246	54.088	35.907	74.043	1.00	48.73
ATOM	10704	OG	SER F 246	54.142	36.484	72.755	1.00	55.60
ATOM	10705	N	ALA F 247	53.694	36.879	77.440	1.00	41.48
ATOM	10706	CA	ALA F 247	53.621	36.324	78.782	1.00	41.93
ATOM	10707	C	ALA F 247	53.234	34.845	78.814	1.00	40.68
ATOM	10708	O	ALA F 247	52.178	34.460	78.323	1.00	42.76
ATOM	10709	CB	ALA F 247	52.648	37.142	79.632	1.00	40.83
ATOM	10710	N	VAL F 248	54.108	34.023	79.385	1.00	36.90
ATOM	10711	CA	VAL F 248	53.849	32.601	79.517	1.00	35.39
ATOM	10712	C	VAL F 248	53.095	32.432	80.814	1.00	37.02
ATOM	10713	O	VAL F 248	53.440	33.087	81.804	1.00	39.55
ATOM	10714	CB	VAL F 248	55.140	31.793	79.681	1.00	33.88
ATOM	10715	CG1	VAL F 248	54.813	30.319	79.783	1.00	32.05
ATOM	10716	CG2	VAL F 248	56.074	32.067	78.541	1.00	31.53
ATOM	10717	N	SER F 249	52.075	31.574	80.827	1.00	35.97
ATOM	10718	CA	SER F 249	51.339	31.329	82.071	1.00	36.53
ATOM	10719	C	SER F 249	52.020	30.145	82.698	1.00	35.42
ATOM	10720	O	SER F 249	52.377	29.199	81.999	1.00	35.16
ATOM	10721	CB	SER F 249	49.872	30.971	81.828	1.00	36.83
ATOM	10722	OG	SER F 249	49.182	30.784	83.055	1.00	35.33
ATOM	10723	N	LEU F 250	52.215	30.199	84.008	1.00	34.50
ATOM	10724	CA	LEU F 250	52.869	29.100	84.692	1.00	34.68

ATOM	10725	C	LEU F 250	51.896	27.918	84.765	1.00	32.29
ATOM	10726	O	LEU F 250	52.309	26.783	84.996	1.00	33.26
ATOM	10727	CB	LEU F 250	53.314	29.530	86.100	1.00	39.92
ATOM	10728	CG	LEU F 250	54.060	30.869	86.293	1.00	41.26
ATOM	10729	CD1	LEU F 250	54.536	30.961	87.747	1.00	35.71
ATOM	10730	CD2	LEU F 250	55.241	30.989	85.330	1.00	37.64
ATOM	10731	N	GLY F 251	50.611	28.197	84.558	1.00	26.89
ATOM	10732	CA	GLY F 251	49.606	27.157	84.584	1.00	24.94
ATOM	10733	C	GLY F 251	49.444	26.530	85.941	1.00	26.93
ATOM	10734	O	GLY F 251	49.546	25.313	86.091	1.00	28.85
ATOM	10735	N	LEU F 252	49.150	27.353	86.934	1.00	26.92
ATOM	10736	CA	LEU F 252	49.007	26.864	88.301	1.00	28.08
ATOM	10737	C	LEU F 252	47.585	26.735	88.819	1.00	29.63
ATOM	10738	O	LEU F 252	46.704	27.515	88.467	1.00	30.64
ATOM	10739	CB	LEU F 252	49.748	27.786	89.253	1.00	23.75
ATOM	10740	CG	LEU F 252	51.143	28.181	88.831	1.00	21.49
ATOM	10741	CD1	LEU F 252	51.581	29.318	89.723	1.00	23.12
ATOM	10742	CD2	LEU F 252	52.071	26.997	88.890	1.00	13.19
ATOM	10743	N	THR F 253	47.381	25.755	89.691	1.00	30.30
ATOM	10744	CA	THR F 253	46.080	25.543	90.307	1.00	29.28
ATOM	10745	C	THR F 253	46.315	25.324	91.792	1.00	26.64
ATOM	10746	O	THR F 253	47.160	24.514	92.174	1.00	26.58
ATOM	10747	CB	THR F 253	45.369	24.299	89.750	1.00	28.99
ATOM	10748	OG1	THR F 253	45.295	24.381	88.328	1.00	26.24
ATOM	10749	CG2	THR F 253	43.971	24.218	90.293	1.00	30.53
ATOM	10750	N	ALA F 254	45.595	26.077	92.614	1.00	22.03
ATOM	10751	CA	ALA F 254	45.682	25.942	94.053	1.00	21.03
ATOM	10752	C	ALA F 254	44.759	24.769	94.383	1.00	23.41
ATOM	10753	O	ALA F 254	43.572	24.797	94.059	1.00	25.03
ATOM	10754	CB	ALA F 254	45.182	27.196	94.723	1.00	15.38
ATOM	10755	N	ASN F 255	45.305	23.735	95.011	1.00	21.90
ATOM	10756	CA	ASN F 255	44.515	22.574	95.355	1.00	19.20
ATOM	10757	C	ASN F 255	44.564	22.327	96.829	1.00	20.08
ATOM	10758	O	ASN F 255	45.573	22.588	97.473	1.00	20.34
ATOM	10759	CB	ASN F 255	45.059	21.312	94.695	1.00	18.95
ATOM	10760	CG	ASN F 255	45.221	21.452	93.227	1.00	14.96
ATOM	10761	OD1	ASN F 255	45.333	20.471	92.517	1.00	20.61
ATOM	10762	ND2	ASN F 255	45.251	22.674	92.755	1.00	17.15
ATOM	10763	N	TYR F 256	43.469	21.809	97.365	1.00	22.56
ATOM	10764	CA	TYR F 256	43.452	21.445	98.767	1.00	22.20
ATOM	10765	C	TYR F 256	43.997	20.024	98.771	1.00	23.51
ATOM	10766	O	TYR F 256	43.677	19.213	97.879	1.00	22.42
ATOM	10767	CB	TYR F 256	42.040	21.433	99.346	1.00	21.54
ATOM	10768	CG	TYR F 256	41.432	22.786	99.573	1.00	21.92
ATOM	10769	CD1	TYR F 256	40.671	23.399	98.589	1.00	24.98
ATOM	10770	CD2	TYR F 256	41.566	23.425	100.795	1.00	26.30
ATOM	10771	CE1	TYR F 256	40.044	24.609	98.811	1.00	26.89
ATOM	10772	CE2	TYR F 256	40.950	24.639	101.037	1.00	30.03
ATOM	10773	CZ	TYR F 256	40.183	25.230	100.040	1.00	30.50
ATOM	10774	OH	TYR F 256	39.545	26.436	100.278	1.00	29.88
ATOM	10775	N	ALA F 257	44.852	19.739	99.746	1.00	22.87
ATOM	10776	CA	ALA F 257	45.417	18.414	99.905	1.00	24.22
ATOM	10777	C	ALA F 257	45.329	18.230	101.388	1.00	27.37
ATOM	10778	O	ALA F 257	45.243	19.208	102.123	1.00	27.93
ATOM	10779	CB	ALA F 257	46.836	18.375	99.450	1.00	24.77
ATOM	10780	N	ARG F 258	45.306	16.983	101.832	1.00	32.40
ATOM	10781	CA	ARG F 258	45.203	16.707	103.250	1.00	36.41
ATOM	10782	C	ARG F 258	46.566	16.391	103.823	1.00	41.48
ATOM	10783	O	ARG F 258	47.432	15.838	103.132	1.00	44.76
ATOM	10784	CB	ARG F 258	44.272	15.534	103.487	1.00	33.54
ATOM	10785	CG	ARG F 258	42.858	15.803	103.114	1.00	33.11
ATOM	10786	CD	ARG F 258	42.102	14.505	103.108	1.00	37.74

ATOM	10787	NE	ARG F 258	42.211	13.804	104.385	1.00	41.06
ATOM	10788	CZ	ARG F 258	41.763	12.571	104.599	1.00	39.15
ATOM	10789	NH1	ARG F 258	41.176	11.896	103.621	1.00	36.36
ATOM	10790	NH2	ARG F 258	41.900	12.017	105.792	1.00	40.37
ATOM	10791	N	THR F 259	46.740	16.745	105.092	1.00	44.41
ATOM	10792	CA	THR F 259	47.978	16.520	105.812	1.00	46.91
ATOM	10793	C	THR F 259	47.760	15.367	106.776	1.00	50.99
ATOM	10794	O	THR F 259	48.184	14.243	106.518	1.00	51.68
ATOM	10795	CB	THR F 259	48.369	17.774	106.598	1.00	45.92
ATOM	10796	OG1	THR F 259	47.250	18.225	107.367	1.00	44.71
ATOM	10797	CG2	THR F 259	48.771	18.881	105.659	1.00	47.65
ATOM	10798	N	GLY F 260	47.082	15.658	107.884	1.00	56.73
ATOM	10799	CA	GLY F 260	46.794	14.645	108.887	1.00	59.65
ATOM	10800	C	GLY F 260	45.406	14.052	108.712	1.00	62.74
ATOM	10801	O	GLY F 260	44.557	14.633	108.016	1.00	63.91
ATOM	10802	N	GLY F 261	45.173	12.901	109.343	1.00	62.95
ATOM	10803	CA	GLY F 261	43.887	12.231	109.243	1.00	64.19
ATOM	10804	C	GLY F 261	42.751	12.738	110.131	1.00	64.97
ATOM	10805	O	GLY F 261	42.310	12.042	111.052	1.00	68.67
ATOM	10806	N	GLN F 262	42.260	13.941	109.857	1.00	62.22
ATOM	10807	CA	GLN F 262	41.158	14.509	110.622	1.00	60.02
ATOM	10808	C	GLN F 262	40.763	15.870	110.081	1.00	57.87
ATOM	10809	O	GLN F 262	40.799	16.872	110.800	1.00	59.52
ATOM	10810	CB	GLN F 262	41.524	14.646	112.100	1.00	62.02
ATOM	10811	CG	GLN F 262	40.374	15.180	112.964	1.00	67.95
ATOM	10812	CD	GLN F 262	39.097	14.339	112.849	1.00	71.35
ATOM	10813	OE1	GLN F 262	38.031	14.738	113.331	1.00	69.20
ATOM	10814	NE2	GLN F 262	39.205	13.170	112.214	1.00	73.09
ATOM	10815	N	VAL F 263	40.388	15.907	108.809	1.00	53.47
ATOM	10816	CA	VAL F 263	39.990	17.156	108.198	1.00	49.61
ATOM	10817	C	VAL F 263	38.956	17.776	109.120	1.00	47.64
ATOM	10818	O	VAL F 263	38.145	17.067	109.685	1.00	49.95
ATOM	10819	CB	VAL F 263	39.401	16.906	106.815	1.00	49.58
ATOM	10820	CG1	VAL F 263	39.095	18.225	106.132	1.00	55.20
ATOM	10821	CG2	VAL F 263	40.381	16.117	105.984	1.00	47.60
ATOM	10822	N	THR F 264	38.984	19.091	109.282	1.00	45.57
ATOM	10823	CA	THR F 264	38.050	19.735	110.181	1.00	44.56
ATOM	10824	C	THR F 264	37.646	21.145	109.789	1.00	50.16
ATOM	10825	O	THR F 264	38.459	21.924	109.299	1.00	52.40
ATOM	10826	CB	THR F 264	38.639	19.790	111.559	1.00	39.99
ATOM	10827	OG1	THR F 264	38.883	18.454	111.997	1.00	34.23
ATOM	10828	CG2	THR F 264	37.707	20.512	112.519	1.00	34.35
ATOM	10829	N	ALA F 265	36.381	21.464	110.034	1.00	52.91
ATOM	10830	CA	ALA F 265	35.817	22.768	109.723	1.00	55.25
ATOM	10831	C	ALA F 265	36.768	23.903	110.049	1.00	57.22
ATOM	10832	O	ALA F 265	37.610	23.786	110.937	1.00	58.53
ATOM	10833	CB	ALA F 265	34.519	22.953	110.491	1.00	59.37
ATOM	10834	N	GLY F 266	36.619	25.009	109.329	1.00	59.55
ATOM	10835	CA	GLY F 266	37.469	26.165	109.561	1.00	60.89
ATOM	10836	C	GLY F 266	38.013	26.819	108.303	1.00	61.10
ATOM	10837	O	GLY F 266	37.735	26.381	107.179	1.00	60.67
ATOM	10838	N	ASN F 267	38.795	27.876	108.489	1.00	62.06
ATOM	10839	CA	ASN F 267	39.377	28.571	107.352	1.00	62.78
ATOM	10840	C	ASN F 267	40.749	28.030	106.984	1.00	60.95
ATOM	10841	O	ASN F 267	41.511	27.568	107.841	1.00	58.88
ATOM	10842	CB	ASN F 267	39.452	30.075	107.617	1.00	66.90
ATOM	10843	CG	ASN F 267	38.081	30.697	107.767	1.00	71.25
ATOM	10844	OD1	ASN F 267	37.902	31.905	107.587	1.00	75.89
ATOM	10845	ND2	ASN F 267	37.100	29.871	108.106	1.00	72.69
ATOM	10846	N	VAL F 268	41.036	28.091	105.688	1.00	58.55
ATOM	10847	CA	VAL F 268	42.285	27.616	105.116	1.00	56.86
ATOM	10848	C	VAL F 268	42.915	28.718	104.265	1.00	56.01

ATOM	10849	O	VAL	F	268	42.445	29.016	103.169	1.00	53.16
ATOM	10850	CB	VAL	F	268	42.021	26.369	104.242	1.00	56.82
ATOM	10851	CG1	VAL	F	268	43.265	25.968	103.492	1.00	58.12
ATOM	10852	CG2	VAL	F	268	41.544	25.226	105.117	1.00	57.91
ATOM	10853	N	GLN	F	269	43.969	29.335	104.793	1.00	55.36
ATOM	10854	CA	GLN	F	269	44.677	30.394	104.085	1.00	55.42
ATOM	10855	C	GLN	F	269	46.152	30.031	104.001	1.00	53.90
ATOM	10856	O	GLN	F	269	46.697	29.433	104.926	1.00	54.06
ATOM	10857	CB	GLN	F	269	44.512	31.717	104.818	1.00	57.90
ATOM	10858	CG	GLN	F	269	43.265	32.476	104.442	1.00	60.97
ATOM	10859	CD	GLN	F	269	42.962	33.581	105.429	1.00	66.10
ATOM	10860	OE1	GLN	F	269	43.844	34.356	105.810	1.00	65.92
ATOM	10861	NE2	GLN	F	269	41.705	33.663	105.854	1.00	70.42
ATOM	10862	N	SER	F	270	46.803	30.395	102.901	1.00	51.48
ATOM	10863	CA	SER	F	270	48.211	30.057	102.744	1.00	49.67
ATOM	10864	C	SER	F	270	49.065	31.155	102.093	1.00	48.37
ATOM	10865	O	SER	F	270	48.570	32.021	101.366	1.00	45.87
ATOM	10866	CB	SER	F	270	48.328	28.754	101.945	1.00	48.33
ATOM	10867	OG	SER	F	270	49.584	28.139	102.138	1.00	46.17
ATOM	10868	N	ILE	F	271	50.362	31.102	102.370	1.00	47.52
ATOM	10869	CA	ILE	F	271	51.314	32.067	101.832	1.00	46.83
ATOM	10870	C	ILE	F	271	52.494	31.346	101.188	1.00	42.50
ATOM	10871	O	ILE	F	271	53.250	30.661	101.860	1.00	41.14
ATOM	10872	CB	ILE	F	271	51.830	32.982	102.944	1.00	50.79
ATOM	10873	CG1	ILE	F	271	52.133	32.138	104.202	1.00	51.03
ATOM	10874	CG2	ILE	F	271	50.809	34.106	103.188	1.00	54.01
ATOM	10875	CD1	ILE	F	271	52.724	32.901	105.383	1.00	45.70
ATOM	10876	N	ILE	F	272	52.643	31.509	99.882	1.00	38.45
ATOM	10877	CA	ILE	F	272	53.711	30.853	99.155	1.00	36.70
ATOM	10878	C	ILE	F	272	54.608	31.812	98.418	1.00	33.95
ATOM	10879	O	ILE	F	272	54.149	32.754	97.793	1.00	34.41
ATOM	10880	CB	ILE	F	272	53.159	29.884	98.102	1.00	41.10
ATOM	10881	CG1	ILE	F	272	52.233	28.869	98.766	1.00	46.48
ATOM	10882	CG2	ILE	F	272	54.295	29.186	97.387	1.00	40.39
ATOM	10883	CD1	ILE	F	272	52.809	28.263	100.002	1.00	48.96
ATOM	10884	N	GLY	F	273	55.899	31.550	98.468	1.00	30.53
ATOM	10885	CA	GLY	F	273	56.814	32.408	97.766	1.00	28.81
ATOM	10886	C	GLY	F	273	57.188	31.757	96.463	1.00	29.69
ATOM	10887	O	GLY	F	273	57.572	30.585	96.441	1.00	32.49
ATOM	10888	N	VAL	F	274	57.043	32.495	95.369	1.00	27.63
ATOM	10889	CA	VAL	F	274	57.417	31.979	94.059	1.00	25.11
ATOM	10890	C	VAL	F	274	58.713	32.734	93.712	1.00	27.41
ATOM	10891	O	VAL	F	274	58.752	33.975	93.725	1.00	28.83
ATOM	10892	CB	VAL	F	274	56.333	32.261	93.004	1.00	21.10
ATOM	10893	CG1	VAL	F	274	56.511	31.331	91.826	1.00	15.02
ATOM	10894	CG2	VAL	F	274	54.961	32.112	93.614	1.00	17.68
ATOM	10895	N	THR	F	275	59.777	31.983	93.444	1.00	25.60
ATOM	10896	CA	THR	F	275	61.071	32.576	93.137	1.00	26.27
ATOM	10897	C	THR	F	275	61.505	32.265	91.718	1.00	25.15
ATOM	10898	O	THR	F	275	61.715	31.102	91.352	1.00	23.00
ATOM	10899	CB	THR	F	275	62.174	32.060	94.095	1.00	30.32
ATOM	10900	OG1	THR	F	275	61.815	32.352	95.451	1.00	37.14
ATOM	10901	CG2	THR	F	275	63.509	32.714	93.776	1.00	31.08
ATOM	10902	N	PHE	F	276	61.643	33.324	90.931	1.00	23.00
ATOM	10903	CA	PHE	F	276	62.058	33.212	89.552	1.00	19.13
ATOM	10904	C	PHE	F	276	63.569	33.284	89.492	1.00	18.93
ATOM	10905	O	PHE	F	276	64.177	34.222	89.990	1.00	20.59
ATOM	10906	CB	PHE	F	276	61.431	34.331	88.736	1.00	14.74
ATOM	10907	CG	PHE	F	276	59.971	34.161	88.524	1.00	17.66
ATOM	10908	CD1	PHE	F	276	59.066	34.445	89.543	1.00	18.71
ATOM	10909	CD2	PHE	F	276	59.488	33.701	87.304	1.00	19.89
ATOM	10910	CE1	PHE	F	276	57.693	34.280	89.353	1.00	17.71

ATOM	10911	CE2	PHE	F	276	58.115	33.527	87.098	1.00	19.35
ATOM	10912	CZ	PHE	F	276	57.212	33.822	88.128	1.00	17.51
ATOM	10913	N	VAL	F	277	64.175	32.279	88.879	1.00	18.06
ATOM	10914	CA	VAL	F	277	65.619	32.219	88.775	1.00	17.77
ATOM	10915	C	VAL	F	277	66.092	32.643	87.394	1.00	18.13
ATOM	10916	O	VAL	F	277	65.645	32.098	86.399	1.00	18.78
ATOM	10917	CB	VAL	F	277	66.115	30.797	89.039	1.00	16.65
ATOM	10918	CG1	VAL	F	277	67.597	30.822	89.315	1.00	20.32
ATOM	10919	CG2	VAL	F	277	65.357	30.187	90.205	1.00	16.03
ATOM	10920	N	TYR	F	278	67.013	33.604	87.345	1.00	19.02
ATOM	10921	CA	TYR	F	278	67.552	34.114	86.091	1.00	14.21
ATOM	10922	C	TYR	F	278	68.857	33.462	85.715	1.00	17.00
ATOM	10923	O	TYR	F	278	69.650	33.104	86.581	1.00	19.82
ATOM	10924	CB	TYR	F	278	67.760	35.609	86.191	1.00	9.54
ATOM	10925	CG	TYR	F	278	66.464	36.339	86.363	1.00	11.01
ATOM	10926	CD1	TYR	F	278	65.745	36.252	87.549	1.00	11.00
ATOM	10927	CD2	TYR	F	278	65.906	37.037	85.308	1.00	12.63
ATOM	10928	CE1	TYR	F	278	64.500	36.829	87.672	1.00	14.42
ATOM	10929	CE2	TYR	F	278	64.656	37.627	85.417	1.00	18.09
ATOM	10930	CZ	TYR	F	278	63.955	37.514	86.596	1.00	17.60
ATOM	10931	OH	TYR	F	278	62.695	38.056	86.680	1.00	23.47
ATOM	10932	N	GLN	F	279	69.084	33.301	84.415	1.00	19.01
ATOM	10933	CA	GLN	F	279	70.323	32.699	83.940	1.00	19.13
ATOM	10934	C	GLN	F	279	71.429	33.724	83.734	1.00	19.23
ATOM	10935	O	GLN	F	279	72.580	33.400	84.072	1.00	21.86
ATOM	10936	CB	GLN	F	279	70.111	31.950	82.632	1.00	21.70
ATOM	10937	CG	GLN	F	279	71.339	31.156	82.244	1.00	26.57
ATOM	10938	CD	GLN	F	279	71.240	30.455	80.899	1.00	33.69
ATOM	10939	OE1	GLN	F	279	72.019	29.536	80.632	1.00	37.71
ATOM	10940	NE2	GLN	F	279	70.304	30.887	80.041	1.00	27.94
ATOM	10941	OXT	GLN	F	279	71.149	34.823	83.214	1.00	18.43
ATOM	10942	N	GLY	G	1	94.859	122.937	141.625	1.00	36.59
ATOM	10943	CA	GLY	G	1	95.123	123.539	142.960	1.00	33.17
ATOM	10944	C	GLY	G	1	94.254	124.744	143.271	1.00	31.10
ATOM	10945	O	GLY	G	1	93.046	124.719	143.046	1.00	31.75
ATOM	10946	N	VAL	G	2	94.873	125.797	143.793	1.00	25.99
ATOM	10947	CA	VAL	G	2	94.157	127.014	144.154	1.00	21.27
ATOM	10948	C	VAL	G	2	94.822	128.192	143.452	1.00	23.35
ATOM	10949	O	VAL	G	2	96.045	128.324	143.494	1.00	27.60
ATOM	10950	CB	VAL	G	2	94.179	127.206	145.690	1.00	13.91
ATOM	10951	CG1	VAL	G	2	93.531	128.496	146.073	1.00	11.45
ATOM	10952	CG2	VAL	G	2	93.459	126.048	146.353	1.00	8.00
ATOM	10953	N	ALA	G	3	94.032	129.034	142.782	1.00	23.53
ATOM	10954	CA	ALA	G	3	94.600	130.186	142.066	1.00	24.34
ATOM	10955	C	ALA	G	3	93.865	131.497	142.302	1.00	23.80
ATOM	10956	O	ALA	G	3	92.658	131.524	142.520	1.00	21.66
ATOM	10957	CB	ALA	G	3	94.677	129.908	140.573	1.00	23.13
ATOM	10958	N	LEU	G	4	94.625	132.584	142.260	1.00	23.22
ATOM	10959	CA	LEU	G	4	94.074	133.893	142.481	1.00	22.23
ATOM	10960	C	LEU	G	4	93.571	134.449	141.162	1.00	26.97
ATOM	10961	O	LEU	G	4	94.140	134.169	140.099	1.00	26.09
ATOM	10962	CB	LEU	G	4	95.142	134.800	143.077	1.00	21.67
ATOM	10963	CG	LEU	G	4	95.869	134.291	144.337	1.00	19.37
ATOM	10964	CD1	LEU	G	4	96.891	135.328	144.777	1.00	14.20
ATOM	10965	CD2	LEU	G	4	94.882	134.015	145.456	1.00	14.12
ATOM	10966	N	GLY	G	5	92.490	135.231	141.241	1.00	29.38
ATOM	10967	CA	GLY	G	5	91.891	135.834	140.059	1.00	26.63
ATOM	10968	C	GLY	G	5	92.780	136.835	139.330	1.00	27.55
ATOM	10969	O	GLY	G	5	92.629	137.031	138.128	1.00	28.71
ATOM	10970	N	ALA	G	6	93.698	137.480	140.048	1.00	27.34
ATOM	10971	CA	ALA	G	6	94.616	138.449	139.445	1.00	25.27
ATOM	10972	C	ALA	G	6	96.053	137.983	139.507	1.00	23.98

ATOM	10973	O	ALA	G	6	96.374	136.960	140.101	1.00	27.36
ATOM	10974	CB	ALA	G	6	94.514	139.759	140.148	1.00	25.69
ATOM	10975	N	THR	G	7	96.922	138.747	138.880	1.00	20.33
ATOM	10976	CA	THR	G	7	98.326	138.432	138.885	1.00	19.06
ATOM	10977	C	THR	G	7	99.001	139.577	139.599	1.00	18.84
ATOM	10978	O	THR	G	7	100.218	139.578	139.795	1.00	20.32
ATOM	10979	CB	THR	G	7	98.881	138.292	137.463	1.00	23.43
ATOM	10980	OG1	THR	G	7	98.492	139.428	136.657	1.00	22.84
ATOM	10981	CG2	THR	G	7	98.392	136.981	136.857	1.00	17.52
ATOM	10982	N	ARG	G	8	98.186	140.556	139.980	1.00	16.16
ATOM	10983	CA	ARG	G	8	98.647	141.724	140.718	1.00	15.43
ATOM	10984	C	ARG	G	8	97.427	142.456	141.228	1.00	15.23
ATOM	10985	O	ARG	G	8	96.295	142.105	140.882	1.00	16.54
ATOM	10986	CB	ARG	G	8	99.490	142.643	139.844	1.00	13.89
ATOM	10987	CG	ARG	G	8	98.721	143.654	139.043	1.00	17.35
ATOM	10988	CD	ARG	G	8	98.972	143.514	137.555	1.00	19.24
ATOM	10989	NE	ARG	G	8	100.385	143.584	137.176	1.00	18.04
ATOM	10990	CZ	ARG	G	8	101.169	142.519	137.057	1.00	21.93
ATOM	10991	NH1	ARG	G	8	100.668	141.302	137.281	1.00	20.09
ATOM	10992	NH2	ARG	G	8	102.442	142.664	136.707	1.00	16.45
ATOM	10993	N	VAL	G	9	97.644	143.463	142.063	1.00	14.22
ATOM	10994	CA	VAL	G	9	96.530	144.205	142.628	1.00	12.81
ATOM	10995	C	VAL	G	9	96.870	145.642	142.846	1.00	13.51
ATOM	10996	O	VAL	G	9	97.955	145.965	143.320	1.00	11.34
ATOM	10997	CB	VAL	G	9	96.084	143.624	143.982	1.00	12.78
ATOM	10998	CG1	VAL	G	9	95.226	144.638	144.721	1.00	11.42
ATOM	10999	CG2	VAL	G	9	95.277	142.332	143.761	1.00	10.63
ATOM	11000	N	ILE	G	10	95.924	146.510	142.496	1.00	16.70
ATOM	11001	CA	ILE	G	10	96.121	147.937	142.666	1.00	16.63
ATOM	11002	C	ILE	G	10	95.234	148.491	143.751	1.00	18.91
ATOM	11003	O	ILE	G	10	94.011	148.462	143.633	1.00	17.06
ATOM	11004	CB	ILE	G	10	95.833	148.708	141.396	1.00	9.81
ATOM	11005	CG1	ILE	G	10	96.745	148.223	140.290	1.00	8.91
ATOM	11006	CG2	ILE	G	10	96.103	150.176	141.628	1.00	14.98
ATOM	11007	CD1	ILE	G	10	98.191	148.210	140.658	1.00	7.59
ATOM	11008	N	TYR	G	11	95.862	148.995	144.812	1.00	20.69
ATOM	11009	CA	TYR	G	11	95.118	149.565	145.919	1.00	21.38
ATOM	11010	C	TYR	G	11	95.031	151.062	145.796	1.00	22.67
ATOM	11011	O	TYR	G	11	96.024	151.767	145.961	1.00	23.52
ATOM	11012	CB	TYR	G	11	95.748	149.236	147.260	1.00	16.38
ATOM	11013	CG	TYR	G	11	94.709	149.119	148.330	1.00	15.24
ATOM	11014	CD1	TYR	G	11	94.183	150.243	148.945	1.00	17.91
ATOM	11015	CD2	TYR	G	11	94.237	147.876	148.723	1.00	20.13
ATOM	11016	CE1	TYR	G	11	93.208	150.128	149.941	1.00	21.54
ATOM	11017	CE2	TYR	G	11	93.270	147.747	149.707	1.00	21.89
ATOM	11018	CZ	TYR	G	11	92.760	148.872	150.315	1.00	22.96
ATOM	11019	OH	TYR	G	11	91.808	148.728	151.297	1.00	24.07
ATOM	11020	N	PRO	G	12	93.826	151.565	145.497	1.00	25.53
ATOM	11021	CA	PRO	G	12	93.500	152.989	145.334	1.00	25.79
ATOM	11022	C	PRO	G	12	93.458	153.698	146.695	1.00	25.71
ATOM	11023	O	PRO	G	12	92.604	153.396	147.539	1.00	19.62
ATOM	11024	CB	PRO	G	12	92.117	152.958	144.674	1.00	26.38
ATOM	11025	CG	PRO	G	12	91.994	151.553	144.115	1.00	24.12
ATOM	11026	CD	PRO	G	12	92.671	150.720	145.141	1.00	24.95
ATOM	11027	N	ALA	G	13	94.372	154.637	146.908	1.00	28.22
ATOM	11028	CA	ALA	G	13	94.404	155.357	148.176	1.00	34.60
ATOM	11029	C	ALA	G	13	93.017	155.902	148.468	1.00	38.25
ATOM	11030	O	ALA	G	13	92.405	156.563	147.623	1.00	41.46
ATOM	11031	CB	ALA	G	13	95.408	156.487	148.122	1.00	35.12
ATOM	11032	N	GLY	G	14	92.525	155.614	149.667	1.00	41.37
ATOM	11033	CA	GLY	G	14	91.200	156.056	150.052	1.00	44.32
ATOM	11034	C	GLY	G	14	90.249	154.880	150.145	1.00	45.88

ATOM	11035	O	GLY	G	14	89.504	154.750	151.118	1.00	44.60
ATOM	11036	N	GLN	G	15	90.289	154.022	149.128	1.00	49.51
ATOM	11037	CA	GLN	G	15	89.443	152.831	149.049	1.00	51.01
ATOM	11038	C	GLN	G	15	89.262	152.142	150.383	1.00	51.27
ATOM	11039	O	GLN	G	15	90.236	151.744	151.016	1.00	51.37
ATOM	11040	CB	GLN	G	15	90.038	151.830	148.065	1.00	53.82
ATOM	11041	CG	GLN	G	15	89.571	152.014	146.646	1.00	58.21
ATOM	11042	CD	GLN	G	15	88.088	151.810	146.517	1.00	58.35
ATOM	11043	OE1	GLN	G	15	87.565	150.742	146.849	1.00	55.11
ATOM	11044	NE2	GLN	G	15	87.391	152.837	146.035	1.00	61.11
ATOM	11045	N	LYS	G	16	88.015	151.988	150.810	1.00	52.35
ATOM	11046	CA	LYS	G	16	87.760	151.336	152.085	1.00	51.21
ATOM	11047	C	LYS	G	16	88.270	149.913	152.016	1.00	49.37
ATOM	11048	O	LYS	G	16	88.711	149.390	153.022	1.00	52.52
ATOM	11049	CB	LYS	G	16	86.268	151.333	152.413	1.00	55.46
ATOM	11050	CG	LYS	G	16	85.951	151.183	153.908	1.00	57.94
ATOM	11051	CD	LYS	G	16	84.428	151.055	154.169	1.00	57.30
ATOM	11052	CE	LYS	G	16	83.609	152.224	153.596	1.00	53.24
ATOM	11053	NZ	LYS	G	16	84.011	153.540	154.165	1.00	49.35
ATOM	11054	N	GLN	G	17	88.209	149.292	150.836	1.00	46.64
ATOM	11055	CA	GLN	G	17	88.699	147.920	150.657	1.00	44.97
ATOM	11056	C	GLN	G	17	88.854	147.497	149.192	1.00	41.84
ATOM	11057	O	GLN	G	17	88.280	148.113	148.305	1.00	42.81
ATOM	11058	CB	GLN	G	17	87.767	146.931	151.348	1.00	45.82
ATOM	11059	CG	GLN	G	17	86.388	146.904	150.744	1.00	48.57
ATOM	11060	CD	GLN	G	17	85.682	145.602	151.014	1.00	51.17
ATOM	11061	OE1	GLN	G	17	85.595	145.152	152.166	1.00	52.40
ATOM	11062	NE2	GLN	G	17	85.171	144.978	149.953	1.00	50.87
ATOM	11063	N	VAL	G	18	89.631	146.440	148.955	1.00	38.81
ATOM	11064	CA	VAL	G	18	89.861	145.901	147.611	1.00	36.14
ATOM	11065	C	VAL	G	18	89.711	144.379	147.597	1.00	36.17
ATOM	11066	O	VAL	G	18	90.304	143.674	148.415	1.00	36.41
ATOM	11067	CB	VAL	G	18	91.252	146.239	147.100	1.00	36.55
ATOM	11068	CG1	VAL	G	18	91.524	145.480	145.824	1.00	34.71
ATOM	11069	CG2	VAL	G	18	91.360	147.733	146.861	1.00	41.19
ATOM	11070	N	GLN	G	19	88.946	143.876	146.635	1.00	35.75
ATOM	11071	CA	GLN	G	19	88.662	142.454	146.551	1.00	32.12
ATOM	11072	C	GLN	G	19	89.500	141.687	145.565	1.00	29.67
ATOM	11073	O	GLN	G	19	89.854	142.203	144.521	1.00	31.88
ATOM	11074	CB	GLN	G	19	87.181	142.283	146.242	1.00	31.20
ATOM	11075	CG	GLN	G	19	86.356	143.221	147.112	1.00	38.15
ATOM	11076	CD	GLN	G	19	84.870	142.943	147.080	1.00	45.89
ATOM	11077	OE1	GLN	G	19	84.116	143.473	147.904	1.00	46.43
ATOM	11078	NE2	GLN	G	19	84.434	142.113	146.128	1.00	48.06
ATOM	11079	N	LEU	G	20	89.838	140.456	145.929	1.00	27.65
ATOM	11080	CA	LEU	G	20	90.613	139.566	145.080	1.00	28.26
ATOM	11081	C	LEU	G	20	89.921	138.198	145.103	1.00	28.52
ATOM	11082	O	LEU	G	20	89.466	137.746	146.155	1.00	29.29
ATOM	11083	CB	LEU	G	20	92.044	139.441	145.599	1.00	29.56
ATOM	11084	CG	LEU	G	20	92.994	138.462	144.883	1.00	31.11
ATOM	11085	CD1	LEU	G	20	93.322	138.958	143.502	1.00	31.87
ATOM	11086	CD2	LEU	G	20	94.277	138.321	145.679	1.00	32.45
ATOM	11087	N	ALA	G	21	89.844	137.544	143.948	1.00	26.91
ATOM	11088	CA	ALA	G	21	89.185	136.252	143.848	1.00	26.10
ATOM	11089	C	ALA	G	21	90.134	135.074	144.036	1.00	27.19
ATOM	11090	O	ALA	G	21	91.273	135.092	143.560	1.00	27.13
ATOM	11091	CB	ALA	G	21	88.494	136.136	142.497	1.00	26.30
ATOM	11092	N	VAL	G	22	89.644	134.049	144.727	1.00	24.62
ATOM	11093	CA	VAL	G	22	90.399	132.833	144.970	1.00	23.45
ATOM	11094	C	VAL	G	22	89.511	131.668	144.586	1.00	24.86
ATOM	11095	O	VAL	G	22	88.325	131.669	144.879	1.00	25.95
ATOM	11096	CB	VAL	G	22	90.774	132.680	146.458	1.00	23.37

ATOM	11097	CG1	VAL	G	22	91.473	131.336	146.708	1.00	22.17
ATOM	11098	CG2	VAL	G	22	91.671	133.804	146.863	1.00	26.89
ATOM	11099	N	THR	G	23	90.080	130.673	143.928	1.00	26.80
ATOM	11100	CA	THR	G	23	89.301	129.522	143.551	1.00	30.20
ATOM	11101	C	THR	G	23	90.114	128.238	143.584	1.00	32.82
ATOM	11102	O	THR	G	23	91.290	128.210	143.229	1.00	30.59
ATOM	11103	CB	THR	G	23	88.655	129.712	142.164	1.00	32.40
ATOM	11104	OG1	THR	G	23	88.703	128.473	141.443	1.00	35.40
ATOM	11105	CG2	THR	G	23	89.351	130.813	141.388	1.00	28.81
ATOM	11106	N	ASN	G	24	89.445	127.183	144.032	1.00	35.58
ATOM	11107	CA	ASN	G	24	90.002	125.853	144.168	1.00	35.94
ATOM	11108	C	ASN	G	24	89.454	124.979	143.049	1.00	38.99
ATOM	11109	O	ASN	G	24	88.243	124.802	142.928	1.00	39.26
ATOM	11110	CB	ASN	G	24	89.602	125.303	145.539	1.00	33.70
ATOM	11111	CG	ASN	G	24	90.057	123.894	145.758	1.00	31.97
ATOM	11112	OD1	ASN	G	24	91.110	123.490	145.275	1.00	35.43
ATOM	11113	ND2	ASN	G	24	89.278	123.137	146.504	1.00	27.24
ATOM	11114	N	ASN	G	25	90.364	124.432	142.245	1.00	43.45
ATOM	11115	CA	ASN	G	25	90.043	123.584	141.092	1.00	47.07
ATOM	11116	C	ASN	G	25	89.872	122.123	141.407	1.00	49.24
ATOM	11117	O	ASN	G	25	89.189	121.408	140.685	1.00	50.73
ATOM	11118	CB	ASN	G	25	91.148	123.683	140.057	1.00	47.46
ATOM	11119	CG	ASN	G	25	91.401	125.089	139.635	1.00	53.16
ATOM	11120	OD1	ASN	G	25	91.111	126.025	140.377	1.00	57.44
ATOM	11121	ND2	ASN	G	25	91.957	125.261	138.440	1.00	59.13
ATOM	11122	N	ASP	G	26	90.525	121.679	142.470	1.00	52.79
ATOM	11123	CA	ASP	G	26	90.487	120.284	142.865	1.00	55.86
ATOM	11124	C	ASP	G	26	89.097	119.808	143.288	1.00	57.51
ATOM	11125	O	ASP	G	26	88.625	120.109	144.389	1.00	55.51
ATOM	11126	CB	ASP	G	26	91.528	120.066	143.963	1.00	59.49
ATOM	11127	CG	ASP	G	26	92.929	120.532	143.536	1.00	62.86
ATOM	11128	OD1	ASP	G	26	93.095	120.916	142.358	1.00	62.35
ATOM	11129	OD2	ASP	G	26	93.863	120.516	144.372	1.00	64.24
ATOM	11130	N	GLU	G	27	88.465	119.057	142.382	1.00	58.62
ATOM	11131	CA	GLU	G	27	87.121	118.513	142.560	1.00	62.33
ATOM	11132	C	GLU	G	27	86.863	117.903	143.920	1.00	62.22
ATOM	11133	O	GLU	G	27	85.714	117.680	144.306	1.00	61.16
ATOM	11134	CB	GLU	G	27	86.836	117.461	141.487	1.00	67.66
ATOM	11135	CG	GLU	G	27	85.917	117.938	140.356	1.00	77.64
ATOM	11136	CD	GLU	G	27	85.841	116.954	139.184	1.00	82.66
ATOM	11137	OE1	GLU	G	27	85.537	115.761	139.420	1.00	84.54
ATOM	11138	OE2	GLU	G	27	86.086	117.382	138.030	1.00	83.60
ATOM	11139	N	ASN	G	28	87.933	117.623	144.646	1.00	62.48
ATOM	11140	CA	ASN	G	28	87.801	117.026	145.961	1.00	63.74
ATOM	11141	C	ASN	G	28	89.129	117.026	146.712	1.00	62.63
ATOM	11142	O	ASN	G	28	90.050	116.260	146.407	1.00	63.73
ATOM	11143	CB	ASN	G	28	87.231	115.602	145.834	1.00	65.84
ATOM	11144	CG	ASN	G	28	87.941	114.764	144.771	1.00	68.15
ATOM	11145	OD1	ASN	G	28	87.465	113.685	144.410	1.00	67.15
ATOM	11146	ND2	ASN	G	28	89.081	115.252	144.272	1.00	68.01
ATOM	11147	N	SER	G	29	89.206	117.913	147.693	1.00	59.58
ATOM	11148	CA	SER	G	29	90.380	118.086	148.532	1.00	56.32
ATOM	11149	C	SER	G	29	90.238	119.459	149.177	1.00	55.49
ATOM	11150	O	SER	G	29	90.255	120.489	148.498	1.00	56.83
ATOM	11151	CB	SER	G	29	91.669	118.016	147.701	1.00	54.56
ATOM	11152	OG	SER	G	29	91.767	119.083	146.779	1.00	50.50
ATOM	11153	N	THR	G	30	90.081	119.470	150.491	1.00	51.54
ATOM	11154	CA	THR	G	30	89.920	120.715	151.210	1.00	50.08
ATOM	11155	C	THR	G	30	91.241	121.453	151.402	1.00	49.48
ATOM	11156	O	THR	G	30	92.313	120.852	151.341	1.00	51.67
ATOM	11157	CB	THR	G	30	89.278	120.441	152.566	1.00	49.54
ATOM	11158	OG1	THR	G	30	87.958	119.929	152.354	1.00	52.89

ATOM	11159	CG2	THR	G	30	89.200	121.701	153.399	1.00	50.69
ATOM	11160	N	TYR	G	31	91.155	122.765	151.607	1.00	46.74
ATOM	11161	CA	TYR	G	31	92.334	123.592	151.842	1.00	42.16
ATOM	11162	C	TYR	G	31	92.070	124.687	152.875	1.00	41.12
ATOM	11163	O	TYR	G	31	90.941	125.123	153.106	1.00	39.17
ATOM	11164	CB	TYR	G	31	92.823	124.270	150.558	1.00	40.60
ATOM	11165	CG	TYR	G	31	93.445	123.357	149.530	1.00	40.34
ATOM	11166	CD1	TYR	G	31	94.793	123.016	149.596	1.00	39.19
ATOM	11167	CD2	TYR	G	31	92.688	122.842	148.483	1.00	40.72
ATOM	11168	CE1	TYR	G	31	95.367	122.188	148.646	1.00	35.51
ATOM	11169	CE2	TYR	G	31	93.256	122.017	147.532	1.00	38.68
ATOM	11170	CZ	TYR	G	31	94.591	121.694	147.619	1.00	36.44
ATOM	11171	OH	TYR	G	31	95.135	120.870	146.668	1.00	40.67
ATOM	11172	N	LEU	G	32	93.149	125.125	153.495	1.00	40.02
ATOM	11173	CA	LEU	G	32	93.104	126.184	154.476	1.00	37.86
ATOM	11174	C	LEU	G	32	93.775	127.359	153.796	1.00	36.49
ATOM	11175	O	LEU	G	32	94.953	127.294	153.440	1.00	35.60
ATOM	11176	CB	LEU	G	32	93.882	125.771	155.714	1.00	37.98
ATOM	11177	CG	LEU	G	32	93.002	125.209	156.815	1.00	37.82
ATOM	11178	CD1	LEU	G	32	93.813	124.325	157.741	1.00	35.67
ATOM	11179	CD2	LEU	G	32	92.371	126.385	157.537	1.00	33.72
ATOM	11180	N	ILE	G	33	93.015	128.429	153.611	1.00	33.86
ATOM	11181	CA	ILE	G	33	93.512	129.615	152.942	1.00	29.66
ATOM	11182	C	ILE	G	33	93.993	130.731	153.859	1.00	30.08
ATOM	11183	O	ILE	G	33	93.189	131.490	154.416	1.00	28.58
ATOM	11184	CB	ILE	G	33	92.432	130.182	152.009	1.00	26.26
ATOM	11185	CG1	ILE	G	33	91.939	129.076	151.083	1.00	27.87
ATOM	11186	CG2	ILE	G	33	92.975	131.331	151.212	1.00	22.73
ATOM	11187	CD1	ILE	G	33	93.037	128.401	150.317	1.00	26.25
ATOM	11188	N	GLN	G	34	95.313	130.826	154.009	1.00	28.73
ATOM	11189	CA	GLN	G	34	95.914	131.886	154.804	1.00	29.03
ATOM	11190	C	GLN	G	34	96.494	132.928	153.847	1.00	29.59
ATOM	11191	O	GLN	G	34	97.163	132.594	152.863	1.00	29.35
ATOM	11192	CB	GLN	G	34	97.015	131.349	155.710	1.00	27.75
ATOM	11193	CG	GLN	G	34	96.526	130.690	156.994	1.00	24.73
ATOM	11194	CD	GLN	G	34	97.671	130.389	157.935	1.00	23.10
ATOM	11195	OE1	GLN	G	34	98.835	130.332	157.514	1.00	21.75
ATOM	11196	NE2	GLN	G	34	97.355	130.183	159.211	1.00	17.68
ATOM	11197	N	SER	G	35	96.233	134.195	154.143	1.00	28.52
ATOM	11198	CA	SER	G	35	96.691	135.282	153.295	1.00	25.08
ATOM	11199	C	SER	G	35	97.237	136.442	154.127	1.00	22.49
ATOM	11200	O	SER	G	35	96.726	136.730	155.197	1.00	20.95
ATOM	11201	CB	SER	G	35	95.512	135.743	152.428	1.00	26.52
ATOM	11202	OG	SER	G	35	94.349	134.981	152.753	1.00	28.06
ATOM	11203	N	TRP	G	36	98.288	137.089	153.632	1.00	21.24
ATOM	11204	CA	TRP	G	36	98.899	138.231	154.310	1.00	22.51
ATOM	11205	C	TRP	G	36	99.601	139.182	153.332	1.00	25.12
ATOM	11206	O	TRP	G	36	99.774	138.869	152.148	1.00	27.47
ATOM	11207	CB	TRP	G	36	99.891	137.762	155.372	1.00	17.97
ATOM	11208	CG	TRP	G	36	101.080	137.042	154.824	1.00	15.89
ATOM	11209	CD1	TRP	G	36	102.347	137.545	154.642	1.00	15.66
ATOM	11210	CD2	TRP	G	36	101.123	135.684	154.397	1.00	9.48
ATOM	11211	NE1	TRP	G	36	103.171	136.576	154.129	1.00	12.19
ATOM	11212	CE2	TRP	G	36	102.445	135.422	153.968	1.00	12.69
ATOM	11213	CE3	TRP	G	36	100.174	134.660	154.332	1.00	6.40
ATOM	11214	CZ2	TRP	G	36	102.840	134.167	153.484	1.00	11.20
ATOM	11215	CZ3	TRP	G	36	100.560	133.417	153.851	1.00	7.09
ATOM	11216	CH2	TRP	G	36	101.884	133.178	153.433	1.00	11.47
ATOM	11217	N	VAL	G	37	100.004	140.347	153.826	1.00	26.03
ATOM	11218	CA	VAL	G	37	100.659	141.315	152.961	1.00	26.49
ATOM	11219	C	VAL	G	37	102.011	141.794	153.480	1.00	25.70
ATOM	11220	O	VAL	G	37	102.095	142.520	154.461	1.00	27.34

ATOM	11221	CB	VAL	G	37	99.755	142.547	152.726	1.00	25.89
ATOM	11222	CG1	VAL	G	37	100.527	143.617	151.981	1.00	29.68
ATOM	11223	CG2	VAL	G	37	98.532	142.155	151.941	1.00	22.42
ATOM	11224	N	GLU	G	38	103.071	141.385	152.805	1.00	24.94
ATOM	11225	CA	GLU	G	38	104.405	141.799	153.187	1.00	25.15
ATOM	11226	C	GLU	G	38	104.721	143.107	152.469	1.00	24.39
ATOM	11227	O	GLU	G	38	104.047	143.477	151.509	1.00	24.56
ATOM	11228	CB	GLU	G	38	105.407	140.717	152.795	1.00	26.14
ATOM	11229	CG	GLU	G	38	105.113	139.381	153.447	1.00	24.77
ATOM	11230	CD	GLU	G	38	106.017	138.295	152.944	1.00	25.62
ATOM	11231	OE1	GLU	G	38	107.167	138.630	152.588	1.00	26.43
ATOM	11232	OE2	GLU	G	38	105.587	137.116	152.915	1.00	25.20
ATOM	11233	N	ASN	G	39	105.729	143.824	152.942	1.00	23.52
ATOM	11234	CA	ASN	G	39	106.078	145.076	152.303	1.00	25.26
ATOM	11235	C	ASN	G	39	107.261	144.831	151.369	1.00	27.85
ATOM	11236	O	ASN	G	39	107.741	143.709	151.249	1.00	26.45
ATOM	11237	CB	ASN	G	39	106.414	146.147	153.344	1.00	24.01
ATOM	11238	CG	ASN	G	39	107.706	145.860	154.086	1.00	24.22
ATOM	11239	OD1	ASN	G	39	108.295	144.800	153.927	1.00	28.74
ATOM	11240	ND2	ASN	G	39	108.149	146.807	154.904	1.00	25.50
ATOM	11241	N	ALA	G	40	107.717	145.882	150.694	1.00	30.39
ATOM	11242	CA	ALA	G	40	108.821	145.763	149.757	1.00	29.31
ATOM	11243	C	ALA	G	40	109.989	144.989	150.343	1.00	30.08
ATOM	11244	O	ALA	G	40	110.620	144.197	149.656	1.00	31.59
ATOM	11245	CB	ALA	G	40	109.274	147.131	149.319	1.00	30.05
ATOM	11246	N	ASP	G	41	110.290	145.210	151.612	1.00	31.66
ATOM	11247	CA	ASP	G	41	111.401	144.499	152.217	1.00	31.62
ATOM	11248	C	ASP	G	41	110.968	143.142	152.729	1.00	30.80
ATOM	11249	O	ASP	G	41	111.684	142.513	153.486	1.00	33.21
ATOM	11250	CB	ASP	G	41	112.011	145.309	153.361	1.00	36.02
ATOM	11251	CG	ASP	G	41	112.608	146.632	152.901	1.00	39.49
ATOM	11252	OD1	ASP	G	41	113.437	146.633	151.961	1.00	37.08
ATOM	11253	OD2	ASP	G	41	112.250	147.673	153.500	1.00	43.01
ATOM	11254	N	GLY	G	42	109.791	142.693	152.319	1.00	31.17
ATOM	11255	CA	GLY	G	42	109.295	141.389	152.739	1.00	30.79
ATOM	11256	C	GLY	G	42	109.030	141.208	154.223	1.00	30.06
ATOM	11257	O	GLY	G	42	109.040	140.095	154.736	1.00	29.60
ATOM	11258	N	VAL	G	43	108.793	142.300	154.925	1.00	30.40
ATOM	11259	CA	VAL	G	43	108.529	142.203	156.346	1.00	32.79
ATOM	11260	C	VAL	G	43	107.026	142.281	156.575	1.00	35.11
ATOM	11261	O	VAL	G	43	106.342	143.190	156.085	1.00	36.10
ATOM	11262	CB	VAL	G	43	109.242	143.328	157.126	1.00	32.00
ATOM	11263	CG1	VAL	G	43	110.645	143.523	156.577	1.00	28.81
ATOM	11264	CG2	VAL	G	43	108.451	144.622	157.042	1.00	34.34
ATOM	11265	N	LYS	G	44	106.508	141.304	157.305	1.00	35.68
ATOM	11266	CA	LYS	G	44	105.093	141.268	157.595	1.00	35.25
ATOM	11267	C	LYS	G	44	104.733	142.379	158.561	1.00	36.68
ATOM	11268	O	LYS	G	44	104.667	142.132	159.765	1.00	39.41
ATOM	11269	CB	LYS	G	44	104.704	139.941	158.235	1.00	34.15
ATOM	11270	CG	LYS	G	44	105.071	138.712	157.451	1.00	37.48
ATOM	11271	CD	LYS	G	44	104.238	137.525	157.917	1.00	39.09
ATOM	11272	CE	LYS	G	44	104.701	136.252	157.263	1.00	42.11
ATOM	11273	NZ	LYS	G	44	106.144	135.979	157.578	1.00	47.57
ATOM	11274	N	ASP	G	45	104.545	143.602	158.066	1.00	35.48
ATOM	11275	CA	ASP	G	45	104.132	144.681	158.953	1.00	32.93
ATOM	11276	C	ASP	G	45	102.638	144.692	158.826	1.00	33.50
ATOM	11277	O	ASP	G	45	102.054	143.765	158.256	1.00	33.51
ATOM	11278	CB	ASP	G	45	104.693	146.025	158.531	1.00	33.34
ATOM	11279	CG	ASP	G	45	104.711	146.204	157.045	1.00	32.59
ATOM	11280	OD1	ASP	G	45	103.681	145.936	156.396	1.00	36.04
ATOM	11281	OD2	ASP	G	45	105.764	146.620	156.532	1.00	32.72
ATOM	11282	N	GLY	G	46	101.998	145.735	159.316	1.00	32.65

ATOM	11283	CA	GLY	G	46	100.554	145.719	159.236	1.00	37.92
ATOM	11284	C	GLY	G	46	99.871	146.498	158.141	1.00	38.56
ATOM	11285	O	GLY	G	46	98.665	146.350	157.964	1.00	41.49
ATOM	11286	N	ARG	G	47	100.625	147.311	157.407	1.00	37.31
ATOM	11287	CA	ARG	G	47	100.055	148.141	156.365	1.00	33.55
ATOM	11288	C	ARG	G	47	98.777	147.624	155.741	1.00	31.34
ATOM	11289	O	ARG	G	47	97.843	148.390	155.515	1.00	30.68
ATOM	11290	CB	ARG	G	47	101.083	148.403	155.289	1.00	39.98
ATOM	11291	CG	ARG	G	47	101.922	149.630	155.557	1.00	45.91
ATOM	11292	CD	ARG	G	47	102.996	149.401	156.588	1.00	49.90
ATOM	11293	NE	ARG	G	47	103.582	150.677	156.972	1.00	58.43
ATOM	11294	CZ	ARG	G	47	102.888	151.655	157.543	1.00	63.07
ATOM	11295	NH1	ARG	G	47	101.598	151.486	157.787	1.00	65.15
ATOM	11296	NH2	ARG	G	47	103.477	152.795	157.876	1.00	68.10
ATOM	11297	N	PHE	G	48	98.712	146.329	155.468	1.00	28.61
ATOM	11298	CA	PHE	G	48	97.502	145.776	154.872	1.00	26.08
ATOM	11299	C	PHE	G	48	97.079	144.490	155.539	1.00	25.10
ATOM	11300	O	PHE	G	48	97.906	143.629	155.817	1.00	28.31
ATOM	11301	CB	PHE	G	48	97.704	145.536	153.362	1.00	24.28
ATOM	11302	CG	PHE	G	48	97.844	146.799	152.576	1.00	21.32
ATOM	11303	CD1	PHE	G	48	99.047	147.503	152.571	1.00	21.00
ATOM	11304	CD2	PHE	G	48	96.740	147.357	151.945	1.00	22.81
ATOM	11305	CE1	PHE	G	48	99.151	148.746	151.965	1.00	19.00
ATOM	11306	CE2	PHE	G	48	96.826	148.598	151.334	1.00	22.44
ATOM	11307	CZ	PHE	G	48	98.038	149.298	151.346	1.00	21.92
ATOM	11308	N	ILE	G	49	95.785	144.361	155.789	1.00	24.78
ATOM	11309	CA	ILE	G	49	95.253	143.157	156.401	1.00	26.94
ATOM	11310	C	ILE	G	49	94.165	142.551	155.525	1.00	27.09
ATOM	11311	O	ILE	G	49	93.278	143.247	155.048	1.00	30.78
ATOM	11312	CB	ILE	G	49	94.743	143.467	157.789	1.00	29.06
ATOM	11313	CG1	ILE	G	49	95.948	143.638	158.710	1.00	32.71
ATOM	11314	CG2	ILE	G	49	93.861	142.363	158.287	1.00	32.53
ATOM	11315	CD1	ILE	G	49	95.606	144.246	160.041	1.00	41.70
ATOM	11316	N	VAL	G	50	94.251	141.241	155.319	1.00	26.94
ATOM	11317	CA	VAL	G	50	93.334	140.500	154.457	1.00	24.56
ATOM	11318	C	VAL	G	50	92.327	139.678	155.225	1.00	25.66
ATOM	11319	O	VAL	G	50	92.681	139.008	156.183	1.00	26.47
ATOM	11320	CB	VAL	G	50	94.116	139.486	153.559	1.00	22.91
ATOM	11321	CG1	VAL	G	50	93.194	138.851	152.547	1.00	20.60
ATOM	11322	CG2	VAL	G	50	95.284	140.168	152.878	1.00	25.20
ATOM	11323	N	THR	G	51	91.072	139.717	154.792	1.00	28.12
ATOM	11324	CA	THR	G	51	90.028	138.891	155.406	1.00	28.11
ATOM	11325	C	THR	G	51	89.297	138.117	154.308	1.00	27.54
ATOM	11326	O	THR	G	51	89.119	138.595	153.191	1.00	26.52
ATOM	11327	CB	THR	G	51	88.952	139.694	156.187	1.00	29.32
ATOM	11328	OG1	THR	G	51	88.284	140.600	155.304	1.00	32.37
ATOM	11329	CG2	THR	G	51	89.559	140.456	157.332	1.00	33.91
ATOM	11330	N	PRO	G	52	88.883	136.892	154.618	1.00	26.67
ATOM	11331	CA	PRO	G	52	89.127	136.322	155.943	1.00	27.00
ATOM	11332	C	PRO	G	52	90.583	135.879	156.171	1.00	28.54
ATOM	11333	O	PRO	G	52	91.229	135.335	155.277	1.00	29.55
ATOM	11334	CB	PRO	G	52	88.115	135.177	156.015	1.00	22.91
ATOM	11335	CG	PRO	G	52	87.849	134.836	154.605	1.00	23.59
ATOM	11336	CD	PRO	G	52	87.826	136.157	153.910	1.00	26.39
ATOM	11337	N	PRO	G	53	91.122	136.129	157.377	1.00	29.37
ATOM	11338	CA	PRO	G	53	92.500	135.755	157.707	1.00	29.22
ATOM	11339	C	PRO	G	53	92.771	134.246	157.628	1.00	31.09
ATOM	11340	O	PRO	G	53	93.910	133.819	157.408	1.00	31.57
ATOM	11341	CB	PRO	G	53	92.671	136.320	159.118	1.00	26.66
ATOM	11342	CG	PRO	G	53	91.314	136.226	159.679	1.00	22.33
ATOM	11343	CD	PRO	G	53	90.455	136.717	158.553	1.00	28.01
ATOM	11344	N	LEU	G	54	91.724	133.445	157.805	1.00	29.94

ATOM	11345	CA	LEU	G	54	91.852	131.991	157.739	1.00	29.78
ATOM	11346	C	LEU	G	54	90.513	131.325	157.416	1.00	29.27
ATOM	11347	O	LEU	G	54	89.519	131.595	158.089	1.00	28.24
ATOM	11348	CB	LEU	G	54	92.356	131.446	159.075	1.00	29.49
ATOM	11349	CG	LEU	G	54	92.395	129.917	159.177	1.00	26.38
ATOM	11350	CD1	LEU	G	54	93.646	129.399	158.505	1.00	31.45
ATOM	11351	CD2	LEU	G	54	92.382	129.496	160.622	1.00	23.85
ATOM	11352	N	PHE	G	55	90.481	130.463	156.400	1.00	27.52
ATOM	11353	CA	PHE	G	55	89.245	129.761	156.049	1.00	27.19
ATOM	11354	C	PHE	G	55	89.477	128.521	155.202	1.00	28.74
ATOM	11355	O	PHE	G	55	90.578	128.287	154.715	1.00	32.30
ATOM	11356	CB	PHE	G	55	88.266	130.707	155.349	1.00	24.62
ATOM	11357	CG	PHE	G	55	88.730	131.202	154.018	1.00	26.29
ATOM	11358	CD1	PHE	G	55	89.564	132.309	153.928	1.00	28.19
ATOM	11359	CD2	PHE	G	55	88.336	130.563	152.847	1.00	28.26
ATOM	11360	CE1	PHE	G	55	90.001	132.777	152.688	1.00	29.62
ATOM	11361	CE2	PHE	G	55	88.764	131.020	151.601	1.00	30.28
ATOM	11362	CZ	PHE	G	55	89.604	132.136	151.523	1.00	30.03
ATOM	11363	N	ALA	G	56	88.445	127.705	155.028	1.00	30.60
ATOM	11364	CA	ALA	G	56	88.609	126.486	154.227	1.00	29.72
ATOM	11365	C	ALA	G	56	87.783	126.463	152.948	1.00	28.99
ATOM	11366	O	ALA	G	56	86.678	126.988	152.889	1.00	30.54
ATOM	11367	CB	ALA	G	56	88.285	125.253	155.066	1.00	23.67
ATOM	11368	N	MET	G	57	88.342	125.859	151.912	1.00	30.08
ATOM	11369	CA	MET	G	57	87.648	125.734	150.649	1.00	29.94
ATOM	11370	C	MET	G	57	87.607	124.258	150.360	1.00	32.48
ATOM	11371	O	MET	G	57	88.584	123.673	149.893	1.00	29.98
ATOM	11372	CB	MET	G	57	88.380	126.484	149.543	1.00	28.75
ATOM	11373	CG	MET	G	57	88.363	127.976	149.757	1.00	30.08
ATOM	11374	SD	MET	G	57	89.321	128.854	148.560	1.00	38.14
ATOM	11375	CE	MET	G	57	88.204	128.910	147.223	1.00	32.83
ATOM	11376	N	LYS	G	58	86.472	123.657	150.698	1.00	35.74
ATOM	11377	CA	LYS	G	58	86.269	122.242	150.480	1.00	40.18
ATOM	11378	C	LYS	G	58	85.951	122.079	149.015	1.00	39.66
ATOM	11379	O	LYS	G	58	84.896	122.502	148.563	1.00	39.93
ATOM	11380	CB	LYS	G	58	85.100	121.742	151.327	1.00	46.52
ATOM	11381	CG	LYS	G	58	85.255	122.014	152.826	1.00	53.46
ATOM	11382	CD	LYS	G	58	83.972	121.679	153.617	1.00	60.54
ATOM	11383	CE	LYS	G	58	83.678	120.175	153.647	1.00	62.88
ATOM	11384	NZ	LYS	G	58	82.475	119.844	154.463	1.00	63.74
ATOM	11385	N	GLY	G	59	86.878	121.486	148.274	1.00	40.94
ATOM	11386	CA	GLY	G	59	86.671	121.276	146.851	1.00	42.48
ATOM	11387	C	GLY	G	59	86.472	122.564	146.084	1.00	41.90
ATOM	11388	O	GLY	G	59	86.764	123.640	146.592	1.00	42.34
ATOM	11389	N	LYS	G	60	85.976	122.451	144.858	1.00	43.47
ATOM	11390	CA	LYS	G	60	85.746	123.613	144.012	1.00	45.17
ATOM	11391	C	LYS	G	60	84.855	124.624	144.705	1.00	45.69
ATOM	11392	O	LYS	G	60	83.722	124.309	145.078	1.00	46.64
ATOM	11393	CB	LYS	G	60	85.106	123.190	142.687	1.00	47.37
ATOM	11394	CG	LYS	G	60	86.048	122.430	141.753	1.00	53.18
ATOM	11395	CD	LYS	G	60	85.370	122.084	140.430	1.00	55.94
ATOM	11396	CE	LYS	G	60	86.384	121.754	139.334	1.00	58.36
ATOM	11397	NZ	LYS	G	60	87.112	120.476	139.556	1.00	57.61
ATOM	11398	N	LYS	G	61	85.395	125.828	144.894	1.00	44.48
ATOM	11399	CA	LYS	G	61	84.701	126.962	145.520	1.00	42.03
ATOM	11400	C	LYS	G	61	85.259	128.177	144.795	1.00	42.38
ATOM	11401	O	LYS	G	61	86.104	128.037	143.897	1.00	40.53
ATOM	11402	CB	LYS	G	61	85.044	127.094	147.012	1.00	39.84
ATOM	11403	CG	LYS	G	61	84.574	125.971	147.902	1.00	44.89
ATOM	11404	CD	LYS	G	61	83.056	125.939	148.030	1.00	51.70
ATOM	11405	CE	LYS	G	61	82.515	127.224	148.646	1.00	53.85
ATOM	11406	NZ	LYS	G	61	81.028	127.313	148.483	1.00	55.75

ATOM	11407	N	GLU	G	62	84.815	129.368	145.186	1.00	40.30
ATOM	11408	CA	GLU	G	62	85.316	130.582	144.556	1.00	41.46
ATOM	11409	C	GLU	G	62	85.010	131.749	145.491	1.00	41.49
ATOM	11410	O	GLU	G	62	84.096	132.527	145.229	1.00	46.83
ATOM	11411	CB	GLU	G	62	84.629	130.764	143.199	1.00	43.10
ATOM	11412	CG	GLU	G	62	85.328	131.679	142.197	1.00	53.45
ATOM	11413	CD	GLU	G	62	85.599	133.074	142.741	1.00	57.99
ATOM	11414	OE1	GLU	G	62	86.617	133.233	143.447	1.00	60.54
ATOM	11415	OE2	GLU	G	62	84.797	134.004	142.469	1.00	59.83
ATOM	11416	N	ASN	G	63	85.763	131.882	146.583	1.00	38.80
ATOM	11417	CA	ASN	G	63	85.477	132.961	147.524	1.00	38.05
ATOM	11418	C	ASN	G	63	86.201	134.253	147.218	1.00	36.78
ATOM	11419	O	ASN	G	63	86.946	134.341	146.247	1.00	36.53
ATOM	11420	CB	ASN	G	63	85.791	132.544	148.962	1.00	37.69
ATOM	11421	CG	ASN	G	63	85.467	131.112	149.228	1.00	37.49
ATOM	11422	OD1	ASN	G	63	86.338	130.256	149.159	1.00	40.21
ATOM	11423	ND2	ASN	G	63	84.207	130.832	149.525	1.00	40.46
ATOM	11424	N	THR	G	64	85.991	135.253	148.069	1.00	34.79
ATOM	11425	CA	THR	G	64	86.611	136.544	147.863	1.00	34.66
ATOM	11426	C	THR	G	64	87.526	136.997	148.978	1.00	33.73
ATOM	11427	O	THR	G	64	87.213	136.847	150.150	1.00	37.83
ATOM	11428	CB	THR	G	64	85.547	137.617	147.679	1.00	33.04
ATOM	11429	OG1	THR	G	64	84.617	137.186	146.686	1.00	32.77
ATOM	11430	CG2	THR	G	64	86.187	138.924	147.238	1.00	33.35
ATOM	11431	N	LEU	G	65	88.654	137.575	148.608	1.00	31.74
ATOM	11432	CA	LEU	G	65	89.576	138.072	149.606	1.00	34.28
ATOM	11433	C	LEU	G	65	89.424	139.579	149.720	1.00	35.65
ATOM	11434	O	LEU	G	65	89.247	140.253	148.713	1.00	39.81
ATOM	11435	CB	LEU	G	65	91.007	137.703	149.222	1.00	31.32
ATOM	11436	CG	LEU	G	65	91.252	136.210	149.411	1.00	31.73
ATOM	11437	CD1	LEU	G	65	92.712	135.864	149.224	1.00	27.79
ATOM	11438	CD2	LEU	G	65	90.792	135.837	150.810	1.00	30.75
ATOM	11439	N	ARG	G	66	89.474	140.110	150.939	1.00	34.75
ATOM	11440	CA	ARG	G	66	89.351	141.552	151.129	1.00	34.08
ATOM	11441	C	ARG	G	66	90.589	142.189	151.750	1.00	34.98
ATOM	11442	O	ARG	G	66	90.892	141.989	152.938	1.00	34.11
ATOM	11443	CB	ARG	G	66	88.130	141.886	151.982	1.00	36.52
ATOM	11444	CG	ARG	G	66	86.810	141.656	151.267	1.00	38.35
ATOM	11445	CD	ARG	G	66	86.025	140.539	151.912	1.00	43.59
ATOM	11446	NE	ARG	G	66	84.858	140.175	151.123	1.00	47.74
ATOM	11447	CZ	ARG	G	66	83.905	141.022	150.752	1.00	49.87
ATOM	11448	NH1	ARG	G	66	83.975	142.299	151.099	1.00	50.60
ATOM	11449	NH2	ARG	G	66	82.879	140.587	150.031	1.00	52.34
ATOM	11450	N	ILE	G	67	91.305	142.952	150.926	1.00	31.89
ATOM	11451	CA	ILE	G	67	92.504	143.631	151.372	1.00	29.06
ATOM	11452	C	ILE	G	67	92.070	144.909	152.058	1.00	27.87
ATOM	11453	O	ILE	G	67	91.326	145.699	151.495	1.00	27.28
ATOM	11454	CB	ILE	G	67	93.420	143.980	150.200	1.00	29.02
ATOM	11455	CG1	ILE	G	67	93.960	142.706	149.542	1.00	23.57
ATOM	11456	CG2	ILE	G	67	94.555	144.859	150.690	1.00	32.16
ATOM	11457	CD1	ILE	G	67	93.002	142.056	148.611	1.00	17.11
ATOM	11458	N	LEU	G	68	92.530	145.116	153.280	1.00	27.81
ATOM	11459	CA	LEU	G	68	92.129	146.304	154.004	1.00	31.45
ATOM	11460	C	LEU	G	68	93.277	147.266	154.271	1.00	35.22
ATOM	11461	O	LEU	G	68	94.339	146.872	154.769	1.00	35.55
ATOM	11462	CB	LEU	G	68	91.467	145.916	155.326	1.00	30.69
ATOM	11463	CG	LEU	G	68	90.256	144.981	155.296	1.00	30.19
ATOM	11464	CD1	LEU	G	68	89.626	144.993	156.657	1.00	32.64
ATOM	11465	CD2	LEU	G	68	89.230	145.434	154.266	1.00	35.09
ATOM	11466	N	ASP	G	69	93.050	148.534	153.929	1.00	37.15
ATOM	11467	CA	ASP	G	69	94.037	149.578	154.129	1.00	37.30
ATOM	11468	C	ASP	G	69	94.188	149.732	155.633	1.00	36.42

ATOM	11469	O	ASP	G	69	93.204	149.875	156.330	1.00	35.63
ATOM	11470	CB	ASP	G	69	93.535	150.870	153.492	1.00	40.00
ATOM	11471	CG	ASP	G	69	94.538	152.006	153.586	1.00	46.52
ATOM	11472	OD1	ASP	G	69	95.548	151.868	154.319	1.00	48.77
ATOM	11473	OD2	ASP	G	69	94.305	153.046	152.920	1.00	49.99
ATOM	11474	N	ALA	G	70	95.412	149.676	156.139	1.00	38.06
ATOM	11475	CA	ALA	G	70	95.618	149.806	157.568	1.00	40.87
ATOM	11476	C	ALA	G	70	96.543	150.950	157.880	1.00	44.92
ATOM	11477	O	ALA	G	70	96.627	151.378	159.028	1.00	46.72
ATOM	11478	CB	ALA	G	70	96.179	148.523	158.147	1.00	40.13
ATOM	11479	N	THR	G	71	97.251	151.445	156.872	1.00	48.44
ATOM	11480	CA	THR	G	71	98.155	152.565	157.110	1.00	55.11
ATOM	11481	C	THR	G	71	97.428	153.892	156.969	1.00	59.97
ATOM	11482	O	THR	G	71	97.385	154.464	155.877	1.00	61.38
ATOM	11483	CB	THR	G	71	99.329	152.570	156.134	1.00	54.30
ATOM	11484	OG1	THR	G	71	100.084	153.779	156.330	1.00	53.29
ATOM	11485	CG2	THR	G	71	98.831	152.464	154.693	1.00	50.48
ATOM	11486	N	ASN	G	72	96.854	154.378	158.068	1.00	63.80
ATOM	11487	CA	ASN	G	72	96.117	155.633	158.029	1.00	69.40
ATOM	11488	C	ASN	G	72	96.950	156.728	157.388	1.00	70.89
ATOM	11489	O	ASN	G	72	97.632	157.482	158.075	1.00	71.87
ATOM	11490	CB	ASN	G	72	95.679	156.045	159.439	1.00	74.09
ATOM	11491	CG	ASN	G	72	94.378	155.364	159.869	1.00	79.46
ATOM	11492	OD1	ASN	G	72	93.809	155.678	160.925	1.00	81.26
ATOM	11493	ND2	ASN	G	72	93.902	154.427	159.045	1.00	79.31
ATOM	11494	N	ASN	G	73	96.875	156.809	156.061	1.00	73.18
ATOM	11495	CA	ASN	G	73	97.631	157.785	155.280	1.00	74.76
ATOM	11496	C	ASN	G	73	99.017	158.046	155.864	1.00	74.86
ATOM	11497	O	ASN	G	73	99.474	159.190	155.934	1.00	75.13
ATOM	11498	CB	ASN	G	73	96.856	159.099	155.168	1.00	75.65
ATOM	11499	CG	ASN	G	73	95.891	159.104	154.001	1.00	75.60
ATOM	11500	OD1	ASN	G	73	94.942	158.320	153.960	1.00	75.05
ATOM	11501	ND2	ASN	G	73	96.133	159.989	153.039	1.00	75.24
ATOM	11502	N	GLN	G	74	99.679	156.973	156.280	1.00	73.17
ATOM	11503	CA	GLN	G	74	101.004	157.080	156.853	1.00	71.28
ATOM	11504	C	GLN	G	74	102.029	156.749	155.778	1.00	68.15
ATOM	11505	O	GLN	G	74	103.216	156.620	156.059	1.00	69.27
ATOM	11506	CB	GLN	G	74	101.120	156.131	158.052	1.00	75.70
ATOM	11507	CG	GLN	G	74	100.092	156.454	159.159	1.00	83.69
ATOM	11508	CD	GLN	G	74	100.095	155.478	160.342	1.00	87.01
ATOM	11509	OE1	GLN	G	74	99.214	155.533	161.211	1.00	84.60
ATOM	11510	NE2	GLN	G	74	101.085	154.588	160.379	1.00	89.45
ATOM	11511	N	LEU	G	75	101.555	156.638	154.539	1.00	63.68
ATOM	11512	CA	LEU	G	75	102.402	156.318	153.388	1.00	58.75
ATOM	11513	C	LEU	G	75	102.595	157.466	152.398	1.00	58.73
ATOM	11514	O	LEU	G	75	101.844	158.447	152.391	1.00	59.57
ATOM	11515	CB	LEU	G	75	101.805	155.150	152.607	1.00	53.85
ATOM	11516	CG	LEU	G	75	102.166	153.703	152.905	1.00	49.94
ATOM	11517	CD1	LEU	G	75	101.337	152.827	151.997	1.00	46.55
ATOM	11518	CD2	LEU	G	75	103.645	153.449	152.677	1.00	50.09
ATOM	11519	N	PRO	G	76	103.608	157.342	151.528	1.00	56.45
ATOM	11520	CA	PRO	G	76	103.923	158.342	150.510	1.00	54.95
ATOM	11521	C	PRO	G	76	102.711	158.600	149.628	1.00	55.41
ATOM	11522	O	PRO	G	76	102.165	157.659	149.062	1.00	58.88
ATOM	11523	CB	PRO	G	76	105.048	157.678	149.737	1.00	52.36
ATOM	11524	CG	PRO	G	76	105.783	156.966	150.802	1.00	53.25
ATOM	11525	CD	PRO	G	76	104.667	156.322	151.589	1.00	56.46
ATOM	11526	N	GLN	G	77	102.301	159.862	149.506	1.00	54.20
ATOM	11527	CA	GLN	G	77	101.146	160.222	148.681	1.00	53.14
ATOM	11528	C	GLN	G	77	101.501	160.748	147.296	1.00	51.77
ATOM	11529	O	GLN	G	77	100.614	161.109	146.524	1.00	52.99
ATOM	11530	CB	GLN	G	77	100.292	161.272	149.385	1.00	54.53

ATOM	11531	CG	GLN	G	77	99.627	160.781	150.643	1.00	58.81
ATOM	11532	CD	GLN	G	77	98.661	159.645	150.390	1.00	61.63
ATOM	11533	OE1	GLN	G	77	98.096	159.084	151.331	1.00	64.94
ATOM	11534	NE2	GLN	G	77	98.460	159.298	149.120	1.00	60.78
ATOM	11535	N	ASP	G	78	102.787	160.797	146.972	1.00	49.25
ATOM	11536	CA	ASP	G	78	103.197	161.297	145.665	1.00	46.88
ATOM	11537	C	ASP	G	78	103.625	160.184	144.717	1.00	44.80
ATOM	11538	O	ASP	G	78	104.184	160.441	143.646	1.00	40.24
ATOM	11539	CB	ASP	G	78	104.349	162.292	145.813	1.00	48.28
ATOM	11540	CG	ASP	G	78	105.678	161.612	146.068	1.00	48.48
ATOM	11541	OD1	ASP	G	78	105.695	160.519	146.668	1.00	48.14
ATOM	11542	OD2	ASP	G	78	106.713	162.183	145.668	1.00	53.43
ATOM	11543	N	ARG	G	79	103.358	158.944	145.105	1.00	44.14
ATOM	11544	CA	ARG	G	79	103.765	157.822	144.280	1.00	42.88
ATOM	11545	C	ARG	G	79	103.332	156.519	144.913	1.00	41.35
ATOM	11546	O	ARG	G	79	102.912	156.486	146.068	1.00	42.36
ATOM	11547	CB	ARG	G	79	105.281	157.808	144.165	1.00	41.95
ATOM	11548	CG	ARG	G	79	105.920	157.397	145.467	1.00	39.16
ATOM	11549	CD	ARG	G	79	107.375	157.739	145.502	1.00	43.89
ATOM	11550	NE	ARG	G	79	107.577	159.118	145.915	1.00	45.82
ATOM	11551	CZ	ARG	G	79	108.748	159.743	145.858	1.00	49.18
ATOM	11552	NH1	ARG	G	79	109.820	159.099	145.401	1.00	45.95
ATOM	11553	NH2	ARG	G	79	108.849	161.010	146.252	1.00	47.87
ATOM	11554	N	GLU	G	80	103.482	155.445	144.146	1.00	39.20
ATOM	11555	CA	GLU	G	80	103.142	154.093	144.580	1.00	35.73
ATOM	11556	C	GLU	G	80	104.170	153.466	145.550	1.00	32.60
ATOM	11557	O	GLU	G	80	105.372	153.752	145.514	1.00	28.31
ATOM	11558	CB	GLU	G	80	103.027	153.176	143.355	1.00	36.43
ATOM	11559	CG	GLU	G	80	101.764	153.283	142.529	1.00	33.80
ATOM	11560	CD	GLU	G	80	101.829	152.400	141.289	1.00	33.50
ATOM	11561	OE1	GLU	G	80	102.939	151.954	140.931	1.00	29.64
ATOM	11562	OE2	GLU	G	80	100.777	152.157	140.667	1.00	31.73
ATOM	11563	N	SER	G	81	103.678	152.593	146.412	1.00	30.26
ATOM	11564	CA	SER	G	81	104.541	151.892	147.339	1.00	28.97
ATOM	11565	C	SER	G	81	104.361	150.415	147.009	1.00	27.85
ATOM	11566	O	SER	G	81	103.236	149.961	146.792	1.00	29.27
ATOM	11567	CB	SER	G	81	104.109	152.185	148.767	1.00	32.31
ATOM	11568	OG	SER	G	81	104.258	153.563	149.075	1.00	35.95
ATOM	11569	N	LEU	G	82	105.455	149.666	146.944	1.00	24.58
ATOM	11570	CA	LEU	G	82	105.373	148.247	146.609	1.00	24.12
ATOM	11571	C	LEU	G	82	105.142	147.344	147.805	1.00	23.41
ATOM	11572	O	LEU	G	82	105.819	147.451	148.836	1.00	24.80
ATOM	11573	CB	LEU	G	82	106.645	147.781	145.879	1.00	24.26
ATOM	11574	CG	LEU	G	82	106.908	146.260	145.895	1.00	25.34
ATOM	11575	CD1	LEU	G	82	105.809	145.486	145.188	1.00	24.65
ATOM	11576	CD2	LEU	G	82	108.214	145.981	145.224	1.00	27.06
ATOM	11577	N	PHE	G	83	104.169	146.459	147.663	1.00	21.14
ATOM	11578	CA	PHE	G	83	103.862	145.507	148.713	1.00	23.32
ATOM	11579	C	PHE	G	83	103.692	144.149	148.066	1.00	23.85
ATOM	11580	O	PHE	G	83	103.521	144.052	146.852	1.00	22.07
ATOM	11581	CB	PHE	G	83	102.578	145.881	149.445	1.00	22.65
ATOM	11582	CG	PHE	G	83	102.701	147.094	150.310	1.00	24.14
ATOM	11583	CD1	PHE	G	83	103.139	148.298	149.792	1.00	27.33
ATOM	11584	CD2	PHE	G	83	102.325	147.048	151.637	1.00	28.71
ATOM	11585	CE1	PHE	G	83	103.194	149.440	150.582	1.00	26.33
ATOM	11586	CE2	PHE	G	83	102.377	148.189	152.430	1.00	26.28
ATOM	11587	CZ	PHE	G	83	102.811	149.383	151.897	1.00	26.49
ATOM	11588	N	TRP	G	84	103.752	143.098	148.875	1.00	24.47
ATOM	11589	CA	TRP	G	84	103.589	141.751	148.356	1.00	23.07
ATOM	11590	C	TRP	G	84	102.496	140.992	149.070	1.00	23.65
ATOM	11591	O	TRP	G	84	102.557	140.819	150.287	1.00	21.48
ATOM	11592	CB	TRP	G	84	104.896	140.982	148.447	1.00	15.56

ATOM	11593	CG	TRP	G	84	105.933	141.603	147.596	1.00	18.13
ATOM	11594	CD1	TRP	G	84	106.834	142.549	147.967	1.00	15.13
ATOM	11595	CD2	TRP	G	84	106.169	141.344	146.205	1.00	19.02
ATOM	11596	NE1	TRP	G	84	107.624	142.898	146.894	1.00	21.04
ATOM	11597	CE2	TRP	G	84	107.233	142.173	145.801	1.00	20.56
ATOM	11598	CE3	TRP	G	84	105.585	140.491	145.264	1.00	18.51
ATOM	11599	CZ2	TRP	G	84	107.727	142.169	144.495	1.00	21.82
ATOM	11600	CZ3	TRP	G	84	106.079	140.486	143.969	1.00	16.48
ATOM	11601	CH2	TRP	G	84	107.137	141.320	143.597	1.00	17.89
ATOM	11602	N	MET	G	85	101.492	140.548	148.304	1.00	24.06
ATOM	11603	CA	MET	G	85	100.395	139.790	148.885	1.00	25.23
ATOM	11604	C	MET	G	85	100.614	138.310	148.676	1.00	25.45
ATOM	11605	O	MET	G	85	100.870	137.873	147.549	1.00	24.92
ATOM	11606	CB	MET	G	85	99.041	140.176	148.294	1.00	24.12
ATOM	11607	CG	MET	G	85	97.935	139.661	149.183	1.00	27.26
ATOM	11608	SD	MET	G	85	96.309	140.042	148.667	1.00	33.98
ATOM	11609	CE	MET	G	85	95.467	138.566	149.147	1.00	33.33
ATOM	11610	N	ASN	G	86	100.519	137.549	149.772	1.00	23.81
ATOM	11611	CA	ASN	G	86	100.721	136.106	149.733	1.00	22.26
ATOM	11612	C	ASN	G	86	99.469	135.355	150.121	1.00	21.68
ATOM	11613	O	ASN	G	86	98.866	135.661	151.132	1.00	22.13
ATOM	11614	CB	ASN	G	86	101.846	135.704	150.685	1.00	18.86
ATOM	11615	CG	ASN	G	86	103.144	136.466	150.425	1.00	22.25
ATOM	11616	OD1	ASN	G	86	103.222	137.665	150.672	1.00	22.58
ATOM	11617	ND2	ASN	G	86	104.165	135.769	149.926	1.00	17.20
ATOM	11618	N	VAL	G	87	99.071	134.381	149.305	1.00	23.34
ATOM	11619	CA	VAL	G	87	97.900	133.552	149.607	1.00	22.63
ATOM	11620	C	VAL	G	87	98.401	132.114	149.630	1.00	23.48
ATOM	11621	O	VAL	G	87	98.825	131.554	148.612	1.00	20.98
ATOM	11622	CB	VAL	G	87	96.772	133.726	148.560	1.00	21.41
ATOM	11623	CG1	VAL	G	87	95.598	132.813	148.888	1.00	16.21
ATOM	11624	CG2	VAL	G	87	96.317	135.177	148.542	1.00	19.26
ATOM	11625	N	LYS	G	88	98.390	131.542	150.824	1.00	24.21
ATOM	11626	CA	LYS	G	88	98.872	130.187	151.026	1.00	26.53
ATOM	11627	C	LYS	G	88	97.710	129.229	151.162	1.00	26.81
ATOM	11628	O	LYS	G	88	96.730	129.534	151.841	1.00	28.84
ATOM	11629	CB	LYS	G	88	99.758	130.115	152.285	1.00	24.25
ATOM	11630	CG	LYS	G	88	99.670	128.787	153.006	1.00	25.82
ATOM	11631	CD	LYS	G	88	100.452	128.738	154.304	1.00	29.06
ATOM	11632	CE	LYS	G	88	101.935	128.543	154.059	1.00	33.82
ATOM	11633	NZ	LYS	G	88	102.722	128.298	155.308	1.00	33.23
ATOM	11634	N	ALA	G	89	97.826	128.078	150.503	1.00	26.57
ATOM	11635	CA	ALA	G	89	96.801	127.047	150.561	1.00	27.47
ATOM	11636	C	ALA	G	89	97.358	125.877	151.365	1.00	30.17
ATOM	11637	O	ALA	G	89	98.263	125.165	150.923	1.00	29.34
ATOM	11638	CB	ALA	G	89	96.427	126.600	149.173	1.00	22.04
ATOM	11639	N	ILE	G	90	96.817	125.689	152.562	1.00	32.76
ATOM	11640	CA	ILE	G	90	97.279	124.623	153.434	1.00	36.35
ATOM	11641	C	ILE	G	90	96.440	123.357	153.293	1.00	39.58
ATOM	11642	O	ILE	G	90	95.240	123.366	153.532	1.00	42.19
ATOM	11643	CB	ILE	G	90	97.252	125.079	154.903	1.00	33.65
ATOM	11644	CG1	ILE	G	90	97.901	126.450	155.024	1.00	31.92
ATOM	11645	CG2	ILE	G	90	98.019	124.110	155.768	1.00	32.80
ATOM	11646	CD1	ILE	G	90	98.075	126.915	156.442	1.00	33.01
ATOM	11647	N	PRO	G	91	97.068	122.252	152.893	1.00	42.02
ATOM	11648	CA	PRO	G	91	96.375	120.973	152.724	1.00	45.48
ATOM	11649	C	PRO	G	91	96.205	120.282	154.071	1.00	50.42
ATOM	11650	O	PRO	G	91	97.098	120.349	154.924	1.00	50.95
ATOM	11651	CB	PRO	G	91	97.318	120.204	151.821	1.00	42.99
ATOM	11652	CG	PRO	G	91	98.654	120.661	152.315	1.00	42.04
ATOM	11653	CD	PRO	G	91	98.465	122.156	152.438	1.00	42.29
ATOM	11654	N	SER	G	92	95.071	119.616	154.274	1.00	53.91

ATOM	11655	CA	SER	G	92	94.854	118.915	155.535	1.00	56.25
ATOM	11656	C	SER	G	92	95.794	117.717	155.604	1.00	57.49
ATOM	11657	O	SER	G	92	96.326	117.290	154.584	1.00	56.86
ATOM	11658	CB	SER	G	92	93.400	118.456	155.645	1.00	56.83
ATOM	11659	OG	SER	G	92	92.531	119.572	155.752	1.00	55.88
ATOM	11660	N	MET	G	93	96.014	117.182	156.800	1.00	60.72
ATOM	11661	CA	MET	G	93	96.903	116.030	156.944	1.00	64.08
ATOM	11662	C	MET	G	93	96.151	114.720	156.713	1.00	65.09
ATOM	11663	O	MET	G	93	94.992	114.566	157.120	1.00	64.57
ATOM	11664	CB	MET	G	93	97.555	116.006	158.331	1.00	66.50
ATOM	11665	CG	MET	G	93	98.622	114.921	158.474	1.00	71.09
ATOM	11666	SD	MET	G	93	98.338	113.751	159.843	1.00	74.64
ATOM	11667	CE	MET	G	93	99.718	114.175	160.954	1.00	73.25
ATOM	11668	N	ASP	G	94	96.822	113.779	156.059	1.00	65.40
ATOM	11669	CA	ASP	G	94	96.227	112.488	155.755	1.00	67.56
ATOM	11670	C	ASP	G	94	96.397	111.510	156.910	1.00	69.80
ATOM	11671	O	ASP	G	94	97.435	110.852	157.034	1.00	70.59
ATOM	11672	CB	ASP	G	94	96.863	111.919	154.490	1.00	68.58
ATOM	11673	CG	ASP	G	94	96.249	110.609	154.077	1.00	68.99
ATOM	11674	OD1	ASP	G	94	95.444	110.069	154.863	1.00	70.01
ATOM	11675	OD2	ASP	G	94	96.570	110.122	152.972	1.00	69.61
ATOM	11676	N	LYS	G	95	95.367	111.405	157.745	1.00	70.78
ATOM	11677	CA	LYS	G	95	95.413	110.524	158.905	1.00	71.46
ATOM	11678	C	LYS	G	95	95.758	109.066	158.587	1.00	72.45
ATOM	11679	O	LYS	G	95	95.982	108.266	159.493	1.00	73.02
ATOM	11680	CB	LYS	G	95	94.083	110.572	159.659	1.00	70.80
ATOM	11681	CG	LYS	G	95	93.762	111.903	160.325	1.00	72.12
ATOM	11682	CD	LYS	G	95	92.979	112.816	159.396	1.00	76.72
ATOM	11683	CE	LYS	G	95	92.448	114.047	160.122	1.00	73.96
ATOM	11684	NZ	LYS	G	95	91.664	114.905	159.194	1.00	75.82
ATOM	11685	N	SER	G	96	95.811	108.721	157.306	1.00	73.43
ATOM	11686	CA	SER	G	96	96.121	107.349	156.908	1.00	74.22
ATOM	11687	C	SER	G	96	97.631	107.083	156.799	1.00	75.68
ATOM	11688	O	SER	G	96	98.120	106.040	157.240	1.00	76.71
ATOM	11689	CB	SER	G	96	95.425	107.015	155.569	1.00	73.33
ATOM	11690	OG	SER	G	96	95.943	107.753	154.481	1.00	67.99
ATOM	11691	N	LYS	G	97	98.358	108.039	156.226	1.00	74.83
ATOM	11692	CA	LYS	G	97	99.801	107.928	156.024	1.00	74.44
ATOM	11693	C	LYS	G	97	100.607	108.343	157.260	1.00	73.67
ATOM	11694	O	LYS	G	97	101.614	109.040	157.158	1.00	74.23
ATOM	11695	CB	LYS	G	97	100.192	108.786	154.820	1.00	75.19
ATOM	11696	CG	LYS	G	97	99.388	108.474	153.560	1.00	77.57
ATOM	11697	CD	LYS	G	97	100.231	107.770	152.503	1.00	79.71
ATOM	11698	CE	LYS	G	97	99.358	107.108	151.446	1.00	82.12
ATOM	11699	NZ	LYS	G	97	98.406	106.117	152.057	1.00	81.85
ATOM	11700	N	LEU	G	98	100.166	107.873	158.420	1.00	72.87
ATOM	11701	CA	LEU	G	98	100.781	108.191	159.713	1.00	71.66
ATOM	11702	C	LEU	G	98	102.167	107.558	159.965	1.00	69.97
ATOM	11703	O	LEU	G	98	103.117	108.255	160.324	1.00	70.12
ATOM	11704	CB	LEU	G	98	99.790	107.790	160.831	1.00	71.07
ATOM	11705	CG	LEU	G	98	99.336	108.714	161.976	1.00	66.08
ATOM	11706	CD1	LEU	G	98	100.226	108.521	163.173	1.00	68.33
ATOM	11707	CD2	LEU	G	98	99.329	110.157	161.533	1.00	62.73
ATOM	11708	N	THR	G	99	102.277	106.245	159.790	1.00	68.12
ATOM	11709	CA	THR	G	99	103.541	105.546	160.018	1.00	67.22
ATOM	11710	C	THR	G	99	104.434	105.652	158.809	1.00	66.94
ATOM	11711	O	THR	G	99	105.415	104.913	158.682	1.00	65.95
ATOM	11712	CB	THR	G	99	103.327	104.058	160.253	1.00	68.77
ATOM	11713	OG1	THR	G	99	102.657	103.496	159.116	1.00	69.54
ATOM	11714	CG2	THR	G	99	102.512	103.828	161.504	1.00	68.09
ATOM	11715	N	GLU	G	100	104.081	106.569	157.916	1.00	67.26
ATOM	11716	CA	GLU	G	100	104.831	106.763	156.685	1.00	65.47

ATOM	11717	C	GLU	G	100	105.699	108.011	156.676	1.00	62.21
ATOM	11718	O	GLU	G	100	105.434	108.979	157.393	1.00	60.95
ATOM	11719	CB	GLU	G	100	103.868	106.836	155.499	1.00	67.13
ATOM	11720	CG	GLU	G	100	103.049	105.587	155.270	1.00	72.22
ATOM	11721	CD	GLU	G	100	102.054	105.754	154.139	1.00	75.82
ATOM	11722	OE1	GLU	G	100	102.487	106.104	153.019	1.00	79.16
ATOM	11723	OE2	GLU	G	100	100.841	105.536	154.368	1.00	79.19
ATOM	11724	N	ASN	G	101	106.751	107.967	155.866	1.00	58.43
ATOM	11725	CA	ASN	G	101	107.615	109.113	155.705	1.00	54.71
ATOM	11726	C	ASN	G	101	106.889	109.875	154.642	1.00	53.93
ATOM	11727	O	ASN	G	101	106.536	109.305	153.609	1.00	52.04
ATOM	11728	CB	ASN	G	101	108.978	108.712	155.184	1.00	53.24
ATOM	11729	CG	ASN	G	101	109.876	108.237	156.273	1.00	53.86
ATOM	11730	OD1	ASN	G	101	109.561	108.381	157.453	1.00	52.36
ATOM	11731	ND2	ASN	G	101	111.011	107.676	155.898	1.00	53.62
ATOM	11732	N	THR	G	102	106.654	111.158	154.892	1.00	53.71
ATOM	11733	CA	THR	G	102	105.943	111.983	153.928	1.00	51.77
ATOM	11734	C	THR	G	102	106.569	113.362	153.736	1.00	49.23
ATOM	11735	O	THR	G	102	107.440	113.786	154.495	1.00	46.85
ATOM	11736	CB	THR	G	102	104.481	112.183	154.363	1.00	53.27
ATOM	11737	OG1	THR	G	102	104.394	113.302	155.258	1.00	57.41
ATOM	11738	CG2	THR	G	102	103.966	110.936	155.076	1.00	49.74
ATOM	11739	N	LEU	G	103	106.119	114.037	152.686	1.00	48.21
ATOM	11740	CA	LEU	G	103	106.539	115.396	152.369	1.00	47.00
ATOM	11741	C	LEU	G	103	105.314	116.102	151.814	1.00	47.25
ATOM	11742	O	LEU	G	103	104.969	115.912	150.641	1.00	49.11
ATOM	11743	CB	LEU	G	103	107.625	115.437	151.299	1.00	41.44
ATOM	11744	CG	LEU	G	103	107.873	116.885	150.838	1.00	39.39
ATOM	11745	CD1	LEU	G	103	108.540	117.672	151.963	1.00	33.59
ATOM	11746	CD2	LEU	G	103	108.726	116.917	149.590	1.00	35.89
ATOM	11747	N	GLN	G	104	104.649	116.904	152.641	1.00	43.96
ATOM	11748	CA	GLN	G	104	103.470	117.610	152.160	1.00	43.67
ATOM	11749	C	GLN	G	104	103.826	119.013	151.704	1.00	40.07
ATOM	11750	O	GLN	G	104	104.431	119.786	152.466	1.00	38.59
ATOM	11751	CB	GLN	G	104	102.396	117.697	153.250	1.00	47.21
ATOM	11752	CG	GLN	G	104	101.009	117.245	152.799	1.00	49.90
ATOM	11753	CD	GLN	G	104	99.978	117.354	153.910	1.00	54.39
ATOM	11754	OE1	GLN	G	104	98.966	116.648	153.906	1.00	56.32
ATOM	11755	NE2	GLN	G	104	100.226	118.250	154.864	1.00	53.64
ATOM	11756	N	LEU	G	105	103.454	119.334	150.467	1.00	32.74
ATOM	11757	CA	LEU	G	105	103.714	120.659	149.943	1.00	30.50
ATOM	11758	C	LEU	G	105	102.540	121.618	150.209	1.00	28.49
ATOM	11759	O	LEU	G	105	101.427	121.193	150.530	1.00	25.06
ATOM	11760	CB	LEU	G	105	104.011	120.589	148.451	1.00	32.89
ATOM	11761	CG	LEU	G	105	105.353	119.967	148.062	1.00	34.31
ATOM	11762	CD1	LEU	G	105	105.563	120.130	146.562	1.00	29.52
ATOM	11763	CD2	LEU	G	105	106.477	120.646	148.837	1.00	33.49
ATOM	11764	N	ALA	G	106	102.813	122.917	150.087	1.00	26.36
ATOM	11765	CA	ALA	G	106	101.822	123.963	150.320	1.00	23.71
ATOM	11766	C	ALA	G	106	102.051	125.097	149.325	1.00	23.05
ATOM	11767	O	ALA	G	106	102.990	125.892	149.477	1.00	22.85
ATOM	11768	CB	ALA	G	106	101.953	124.486	151.745	1.00	23.74
ATOM	11769	N	ILE	G	107	101.197	125.177	148.312	1.00	19.45
ATOM	11770	CA	ILE	G	107	101.364	126.205	147.303	1.00	20.40
ATOM	11771	C	ILE	G	107	100.973	127.583	147.830	1.00	20.66
ATOM	11772	O	ILE	G	107	100.051	127.716	148.648	1.00	20.71
ATOM	11773	CB	ILE	G	107	100.557	125.866	146.009	1.00	18.89
ATOM	11774	CG1	ILE	G	107	101.239	124.745	145.244	1.00	16.79
ATOM	11775	CG2	ILE	G	107	100.551	127.035	145.066	1.00	15.54
ATOM	11776	CD1	ILE	G	107	101.421	123.504	146.033	1.00	23.49
ATOM	11777	N	ILE	G	108	101.702	128.598	147.368	1.00	17.49
ATOM	11778	CA	ILE	G	108	101.442	129.968	147.761	1.00	20.24

ATOM	11779	C	ILE	G	108	101.639	130.850	146.543	1.00	21.21
ATOM	11780	O	ILE	G	108	102.666	130.767	145.859	1.00	18.53
ATOM	11781	CB	ILE	G	108	102.423	130.450	148.881	1.00	22.46
ATOM	11782	CG1	ILE	G	108	102.284	129.552	150.111	1.00	25.67
ATOM	11783	CG2	ILE	G	108	102.123	131.905	149.288	1.00	20.44
ATOM	11784	CD1	ILE	G	108	103.464	129.595	151.002	1.00	18.80
ATOM	11785	N	SER	G	109	100.646	131.691	146.277	1.00	21.44
ATOM	11786	CA	SER	G	109	100.721	132.629	145.168	1.00	20.88
ATOM	11787	C	SER	G	109	101.171	133.955	145.795	1.00	20.90
ATOM	11788	O	SER	G	109	100.648	134.377	146.832	1.00	16.99
ATOM	11789	CB	SER	G	109	99.350	132.800	144.495	1.00	20.43
ATOM	11790	OG	SER	G	109	98.751	131.553	144.166	1.00	26.44
ATOM	11791	N	ARG	G	110	102.173	134.579	145.186	1.00	20.28
ATOM	11792	CA	ARG	G	110	102.683	135.852	145.655	1.00	20.30
ATOM	11793	C	ARG	G	110	102.611	136.864	144.508	1.00	20.47
ATOM	11794	O	ARG	G	110	103.362	136.800	143.538	1.00	19.13
ATOM	11795	CB	ARG	G	110	104.117	135.703	146.155	1.00	20.24
ATOM	11796	CG	ARG	G	110	104.932	136.974	146.007	1.00	24.68
ATOM	11797	CD	ARG	G	110	106.257	136.935	146.756	1.00	23.58
ATOM	11798	NE	ARG	G	110	106.029	137.006	148.198	1.00	27.80
ATOM	11799	CZ	ARG	G	110	106.687	137.798	149.034	1.00	21.86
ATOM	11800	NH1	ARG	G	110	107.637	138.605	148.591	1.00	18.15
ATOM	11801	NH2	ARG	G	110	106.370	137.790	150.314	1.00	22.22
ATOM	11802	N	ILE	G	111	101.682	137.801	144.644	1.00	21.13
ATOM	11803	CA	ILE	G	111	101.452	138.834	143.652	1.00	17.78
ATOM	11804	C	ILE	G	111	101.692	140.248	144.196	1.00	18.62
ATOM	11805	O	ILE	G	111	101.453	140.537	145.372	1.00	13.76
ATOM	11806	CB	ILE	G	111	100.028	138.711	143.130	1.00	15.51
ATOM	11807	CG1	ILE	G	111	99.031	139.119	144.212	1.00	11.00
ATOM	11808	CG2	ILE	G	111	99.788	137.278	142.710	1.00	18.85
ATOM	11809	CD1	ILE	G	111	97.628	138.742	143.919	1.00	11.00
ATOM	11810	N	LYS	G	112	102.186	141.122	143.328	1.00	20.75
ATOM	11811	CA	LYS	G	112	102.469	142.479	143.727	1.00	21.80
ATOM	11812	C	LYS	G	112	101.176	143.214	144.012	1.00	23.72
ATOM	11813	O	LYS	G	112	100.137	142.924	143.417	1.00	24.87
ATOM	11814	CB	LYS	G	112	103.212	143.221	142.626	1.00	22.09
ATOM	11815	CG	LYS	G	112	104.266	142.419	141.890	1.00	23.69
ATOM	11816	CD	LYS	G	112	105.150	143.378	141.089	1.00	25.71
ATOM	11817	CE	LYS	G	112	105.795	142.685	139.908	1.00	32.64
ATOM	11818	NZ	LYS	G	112	106.357	143.617	138.883	1.00	30.36
ATOM	11819	N	LEU	G	113	101.259	144.168	144.930	1.00	24.83
ATOM	11820	CA	LEU	G	113	100.138	145.004	145.317	1.00	24.70
ATOM	11821	C	LEU	G	113	100.682	146.412	145.316	1.00	25.12
ATOM	11822	O	LEU	G	113	101.609	146.716	146.058	1.00	28.92
ATOM	11823	CB	LEU	G	113	99.654	144.664	146.725	1.00	27.44
ATOM	11824	CG	LEU	G	113	98.761	145.750	147.331	1.00	30.13
ATOM	11825	CD1	LEU	G	113	97.646	146.009	146.360	1.00	38.99
ATOM	11826	CD2	LEU	G	113	98.178	145.338	148.664	1.00	31.29
ATOM	11827	N	TYR	G	114	100.139	147.279	144.477	1.00	24.77
ATOM	11828	CA	TYR	G	114	100.633	148.647	144.471	1.00	25.34
ATOM	11829	C	TYR	G	114	99.649	149.570	145.156	1.00	26.98
ATOM	11830	O	TYR	G	114	98.438	149.468	144.949	1.00	27.20
ATOM	11831	CB	TYR	G	114	100.874	149.152	143.057	1.00	22.03
ATOM	11832	CG	TYR	G	114	101.909	148.380	142.300	1.00	19.11
ATOM	11833	CD1	TYR	G	114	103.271	148.569	142.541	1.00	19.69
ATOM	11834	CD2	TYR	G	114	101.535	147.472	141.322	1.00	17.70
ATOM	11835	CE1	TYR	G	114	104.229	147.872	141.813	1.00	13.95
ATOM	11836	CE2	TYR	G	114	102.481	146.774	140.593	1.00	15.48
ATOM	11837	CZ	TYR	G	114	103.816	146.986	140.838	1.00	15.03
ATOM	11838	OH	TYR	G	114	104.713	146.342	140.048	1.00	20.43
ATOM	11839	N	TYR	G	115	100.179	150.453	145.993	1.00	27.79
ATOM	11840	CA	TYR	G	115	99.365	151.420	146.708	1.00	30.06

ATOM	11841	C	TYR	G	115	99.386	152.674	145.826	1.00	33.87
ATOM	11842	O	TYR	G	115	100.447	153.285	145.600	1.00	33.40
ATOM	11843	CB	TYR	G	115	99.991	151.706	148.069	1.00	28.28
ATOM	11844	CG	TYR	G	115	99.216	152.700	148.875	1.00	26.15
ATOM	11845	CD1	TYR	G	115	98.026	152.344	149.489	1.00	30.62
ATOM	11846	CD2	TYR	G	115	99.648	154.010	148.987	1.00	26.33
ATOM	11847	CE1	TYR	G	115	97.273	153.276	150.201	1.00	34.85
ATOM	11848	CE2	TYR	G	115	98.912	154.953	149.689	1.00	30.67
ATOM	11849	CZ	TYR	G	115	97.721	154.588	150.295	1.00	34.83
ATOM	11850	OH	TYR	G	115	96.959	155.532	150.964	1.00	35.25
ATOM	11851	N	ARG	G	116	98.225	153.058	145.311	1.00	34.24
ATOM	11852	CA	ARG	G	116	98.191	154.206	144.429	1.00	35.93
ATOM	11853	C	ARG	G	116	97.512	155.441	144.987	1.00	37.93
ATOM	11854	O	ARG	G	116	96.283	155.563	144.973	1.00	40.79
ATOM	11855	CB	ARG	G	116	97.558	153.821	143.090	1.00	32.54
ATOM	11856	CG	ARG	G	116	97.794	154.869	142.017	1.00	34.78
ATOM	11857	CD	ARG	G	116	97.416	154.344	140.668	1.00	36.63
ATOM	11858	NE	ARG	G	116	98.249	153.210	140.301	1.00	39.58
ATOM	11859	CZ	ARG	G	116	97.972	152.388	139.297	1.00	38.83
ATOM	11860	NH1	ARG	G	116	96.884	152.583	138.571	1.00	39.01
ATOM	11861	NH2	ARG	G	116	98.779	151.377	139.021	1.00	39.92
ATOM	11862	N	PRO	G	117	98.315	156.385	145.480	1.00	38.14
ATOM	11863	CA	PRO	G	117	97.833	157.638	146.052	1.00	41.82
ATOM	11864	C	PRO	G	117	96.751	158.205	145.138	1.00	45.88
ATOM	11865	O	PRO	G	117	97.003	158.455	143.956	1.00	45.11
ATOM	11866	CB	PRO	G	117	99.086	158.499	146.079	1.00	43.50
ATOM	11867	CG	PRO	G	117	100.162	157.506	146.293	1.00	40.60
ATOM	11868	CD	PRO	G	117	99.780	156.377	145.381	1.00	38.61
ATOM	11869	N	ALA	G	118	95.556	158.397	145.699	1.00	51.17
ATOM	11870	CA	ALA	G	118	94.378	158.890	144.967	1.00	55.47
ATOM	11871	C	ALA	G	118	94.582	160.077	144.010	1.00	56.61
ATOM	11872	O	ALA	G	118	93.847	160.226	143.028	1.00	55.78
ATOM	11873	CB	ALA	G	118	93.252	159.205	145.956	1.00	55.01
ATOM	11874	N	LYS	G	119	95.567	160.918	144.287	1.00	56.88
ATOM	11875	CA	LYS	G	119	95.805	162.045	143.410	1.00	59.02
ATOM	11876	C	LYS	G	119	97.185	161.958	142.813	1.00	59.78
ATOM	11877	O	LYS	G	119	98.187	162.071	143.519	1.00	63.22
ATOM	11878	CB	LYS	G	119	95.632	163.362	144.170	1.00	59.84
ATOM	11879	CG	LYS	G	119	94.191	163.644	144.531	1.00	60.20
ATOM	11880	CD	LYS	G	119	94.045	164.836	145.446	1.00	61.48
ATOM	11881	CE	LYS	G	119	92.610	164.914	145.952	1.00	65.26
ATOM	11882	NZ	LYS	G	119	92.373	166.017	146.921	1.00	68.03
ATOM	11883	N	LEU	G	120	97.223	161.734	141.505	1.00	57.71
ATOM	11884	CA	LEU	G	120	98.470	161.637	140.766	1.00	54.80
ATOM	11885	C	LEU	G	120	98.250	162.318	139.428	1.00	54.67
ATOM	11886	O	LEU	G	120	97.183	162.204	138.832	1.00	54.30
ATOM	11887	CB	LEU	G	120	98.848	160.174	140.546	1.00	54.11
ATOM	11888	CG	LEU	G	120	99.175	159.326	141.775	1.00	52.45
ATOM	11889	CD1	LEU	G	120	99.281	157.870	141.354	1.00	51.98
ATOM	11890	CD2	LEU	G	120	100.464	159.808	142.426	1.00	49.14
ATOM	11891	N	ALA	G	121	99.261	163.026	138.949	1.00	55.76
ATOM	11892	CA	ALA	G	121	99.142	163.732	137.686	1.00	55.70
ATOM	11893	C	ALA	G	121	99.139	162.771	136.514	1.00	56.26
ATOM	11894	O	ALA	G	121	98.081	162.361	136.029	1.00	55.41
ATOM	11895	CB	ALA	G	121	100.281	164.719	137.546	1.00	56.66
ATOM	11896	N	LEU	G	122	100.338	162.412	136.073	1.00	56.94
ATOM	11897	CA	LEU	G	122	100.521	161.507	134.949	1.00	59.30
ATOM	11898	C	LEU	G	122	99.639	160.265	135.048	1.00	60.17
ATOM	11899	O	LEU	G	122	99.820	159.436	135.935	1.00	61.17
ATOM	11900	CB	LEU	G	122	101.980	161.068	134.880	1.00	61.01
ATOM	11901	CG	LEU	G	122	102.517	160.617	133.524	1.00	63.83
ATOM	11902	CD1	LEU	G	122	103.405	161.727	132.964	1.00	69.46

ATOM	11903	CD2	LEU	G	122	103.324	159.336	133.670	1.00	66.92
ATOM	11904	N	PRO	G	123	98.664	160.121	134.140	1.00	60.67
ATOM	11905	CA	PRO	G	123	97.786	158.942	134.175	1.00	60.11
ATOM	11906	C	PRO	G	123	98.552	157.643	133.828	1.00	58.61
ATOM	11907	O	PRO	G	123	99.335	157.600	132.869	1.00	55.29
ATOM	11908	CB	PRO	G	123	96.695	159.290	133.157	1.00	60.97
ATOM	11909	CG	PRO	G	123	97.408	160.208	132.188	1.00	61.86
ATOM	11910	CD	PRO	G	123	98.236	161.078	133.104	1.00	61.01
ATOM	11911	N	PRO	G	124	98.316	156.569	134.606	1.00	57.11
ATOM	11912	CA	PRO	G	124	98.937	155.251	134.463	1.00	56.14
ATOM	11913	C	PRO	G	124	99.098	154.707	133.057	1.00	57.20
ATOM	11914	O	PRO	G	124	100.144	154.152	132.731	1.00	57.79
ATOM	11915	CB	PRO	G	124	98.062	154.357	135.337	1.00	54.00
ATOM	11916	CG	PRO	G	124	96.763	155.068	135.372	1.00	53.36
ATOM	11917	CD	PRO	G	124	97.184	156.486	135.542	1.00	55.31
ATOM	11918	N	ASP	G	125	98.083	154.845	132.217	1.00	58.67
ATOM	11919	CA	ASP	G	125	98.216	154.327	130.863	1.00	61.73
ATOM	11920	C	ASP	G	125	99.264	155.111	130.072	1.00	61.58
ATOM	11921	O	ASP	G	125	99.732	154.658	129.035	1.00	60.57
ATOM	11922	CB	ASP	G	125	96.862	154.346	130.143	1.00	66.24
ATOM	11923	CG	ASP	G	125	96.189	155.703	130.192	1.00	70.02
ATOM	11924	OD1	ASP	G	125	96.365	156.415	131.212	1.00	70.61
ATOM	11925	OD2	ASP	G	125	95.471	156.045	129.220	1.00	70.15
ATOM	11926	N	GLN	G	126	99.656	156.273	130.580	1.00	61.31
ATOM	11927	CA	GLN	G	126	100.651	157.086	129.896	1.00	62.12
ATOM	11928	C	GLN	G	126	101.992	157.110	130.632	1.00	60.51
ATOM	11929	O	GLN	G	126	102.635	158.151	130.716	1.00	60.86
ATOM	11930	CB	GLN	G	126	100.124	158.521	129.741	1.00	68.18
ATOM	11931	CG	GLN	G	126	101.062	159.477	128.985	1.00	71.66
ATOM	11932	CD	GLN	G	126	100.692	160.939	129.177	1.00	73.56
ATOM	11933	OE1	GLN	G	126	101.508	161.836	128.940	1.00	74.09
ATOM	11934	NE2	GLN	G	126	99.455	161.186	129.600	1.00	74.13
ATOM	11935	N	ALA	G	127	102.434	155.977	131.161	1.00	57.79
ATOM	11936	CA	ALA	G	127	103.699	155.982	131.882	1.00	55.32
ATOM	11937	C	ALA	G	127	104.777	155.099	131.262	1.00	56.39
ATOM	11938	O	ALA	G	127	105.955	155.442	131.289	1.00	57.06
ATOM	11939	CB	ALA	G	127	103.472	155.599	133.330	1.00	47.43
ATOM	11940	N	ALA	G	128	104.388	153.970	130.688	1.00	57.19
ATOM	11941	CA	ALA	G	128	105.369	153.078	130.086	1.00	59.29
ATOM	11942	C	ALA	G	128	106.131	153.720	128.925	1.00	62.77
ATOM	11943	O	ALA	G	128	106.928	153.054	128.266	1.00	63.41
ATOM	11944	CB	ALA	G	128	104.692	151.810	129.618	1.00	58.33
ATOM	11945	N	GLU	G	129	105.885	155.006	128.681	1.00	65.09
ATOM	11946	CA	GLU	G	129	106.548	155.738	127.601	1.00	65.93
ATOM	11947	C	GLU	G	129	107.607	156.673	128.151	1.00	64.79
ATOM	11948	O	GLU	G	129	108.572	157.005	127.466	1.00	63.23
ATOM	11949	CB	GLU	G	129	105.544	156.585	126.842	1.00	70.65
ATOM	11950	CG	GLU	G	129	104.879	157.625	127.734	1.00	78.32
ATOM	11951	CD	GLU	G	129	104.199	158.729	126.950	1.00	81.64
ATOM	11952	OE1	GLU	G	129	103.533	158.409	125.939	1.00	83.73
ATOM	11953	OE2	GLU	G	129	104.323	159.911	127.354	1.00	80.12
ATOM	11954	N	LYS	G	130	107.396	157.117	129.386	1.00	64.21
ATOM	11955	CA	LYS	G	130	108.317	158.029	130.054	1.00	64.08
ATOM	11956	C	LYS	G	130	109.600	157.291	130.429	1.00	63.72
ATOM	11957	O	LYS	G	130	110.490	157.858	131.062	1.00	62.14
ATOM	11958	CB	LYS	G	130	107.670	158.587	131.327	1.00	64.74
ATOM	11959	CG	LYS	G	130	106.204	158.981	131.183	1.00	67.17
ATOM	11960	CD	LYS	G	130	106.023	160.295	130.440	1.00	71.28
ATOM	11961	CE	LYS	G	130	104.544	160.581	130.195	1.00	74.61
ATOM	11962	NZ	LYS	G	130	104.295	161.876	129.496	1.00	75.50
ATOM	11963	N	LEU	G	131	109.686	156.025	130.031	1.00	63.09
ATOM	11964	CA	LEU	G	131	110.846	155.202	130.340	1.00	63.62

ATOM	11965	C	LEU	G	131	112.081	155.552	129.529	1.00	65.89
ATOM	11966	O	LEU	G	131	112.191	155.168	128.366	1.00	67.87
ATOM	11967	CB	LEU	G	131	110.511	153.729	130.123	1.00	61.08
ATOM	11968	CG	LEU	G	131	111.621	152.744	130.494	1.00	57.19
ATOM	11969	CD1	LEU	G	131	112.093	152.994	131.917	1.00	55.63
ATOM	11970	CD2	LEU	G	131	111.098	151.340	130.352	1.00	53.70
ATOM	11971	N	ARG	G	132	113.017	156.269	130.144	1.00	68.41
ATOM	11972	CA	ARG	G	132	114.248	156.647	129.457	1.00	71.49
ATOM	11973	C	ARG	G	132	115.379	155.689	129.791	1.00	72.60
ATOM	11974	O	ARG	G	132	115.222	154.791	130.619	1.00	72.36
ATOM	11975	CB	ARG	G	132	114.654	158.075	129.828	1.00	73.23
ATOM	11976	CG	ARG	G	132	113.823	159.126	129.130	1.00	77.51
ATOM	11977	CD	ARG	G	132	114.362	160.532	129.323	1.00	83.36
ATOM	11978	NE	ARG	G	132	114.137	161.040	130.672	1.00	87.85
ATOM	11979	CZ	ARG	G	132	114.466	162.265	131.074	1.00	91.61
ATOM	11980	NH1	ARG	G	132	115.040	163.121	130.231	1.00	92.83
ATOM	11981	NH2	ARG	G	132	114.222	162.637	132.323	1.00	93.75
ATOM	11982	N	PHE	G	133	116.519	155.879	129.136	1.00	73.75
ATOM	11983	CA	PHE	G	133	117.665	155.016	129.378	1.00	76.02
ATOM	11984	C	PHE	G	133	119.007	155.727	129.537	1.00	78.49
ATOM	11985	O	PHE	G	133	119.094	156.960	129.552	1.00	79.08
ATOM	11986	CB	PHE	G	133	117.772	153.973	128.271	1.00	73.36
ATOM	11987	CG	PHE	G	133	116.580	153.084	128.173	1.00	69.47
ATOM	11988	CD1	PHE	G	133	115.386	153.560	127.655	1.00	68.97
ATOM	11989	CD2	PHE	G	133	116.642	151.776	128.630	1.00	69.13
ATOM	11990	CE1	PHE	G	133	114.266	152.746	127.593	1.00	70.49
ATOM	11991	CE2	PHE	G	133	115.533	150.945	128.578	1.00	69.92
ATOM	11992	CZ	PHE	G	133	114.338	151.429	128.059	1.00	72.45
ATOM	11993	N	ARG	G	134	120.050	154.911	129.662	1.00	80.45
ATOM	11994	CA	ARG	G	134	121.422	155.367	129.849	1.00	82.03
ATOM	11995	C	ARG	G	134	122.301	154.112	129.800	1.00	82.74
ATOM	11996	O	ARG	G	134	122.230	153.252	130.679	1.00	82.42
ATOM	11997	CB	ARG	G	134	121.540	156.071	131.200	1.00	80.89
ATOM	11998	CG	ARG	G	134	122.948	156.296	131.689	1.00	81.96
ATOM	11999	CD	ARG	G	134	122.915	156.700	133.158	1.00	84.14
ATOM	12000	NE	ARG	G	134	122.282	158.003	133.362	1.00	85.48
ATOM	12001	CZ	ARG	G	134	121.886	158.468	134.544	1.00	85.41
ATOM	12002	NH1	ARG	G	134	122.047	157.735	135.639	1.00	84.52
ATOM	12003	NH2	ARG	G	134	121.340	159.673	134.633	1.00	85.10
ATOM	12004	N	ARG	G	135	123.123	154.010	128.759	1.00	84.46
ATOM	12005	CA	ARG	G	135	123.980	152.845	128.563	1.00	85.32
ATOM	12006	C	ARG	G	135	125.469	152.974	128.893	1.00	86.91
ATOM	12007	O	ARG	G	135	125.947	154.010	129.375	1.00	86.41
ATOM	12008	CB	ARG	G	135	123.834	152.349	127.124	1.00	82.15
ATOM	12009	CG	ARG	G	135	123.659	153.464	126.126	1.00	81.50
ATOM	12010	CD	ARG	G	135	123.767	152.980	124.696	1.00	84.25
ATOM	12011	NE	ARG	G	135	122.957	151.796	124.426	1.00	85.22
ATOM	12012	CZ	ARG	G	135	123.350	150.548	124.664	1.00	86.39
ATOM	12013	NH1	ARG	G	135	124.553	150.315	125.176	1.00	86.40
ATOM	12014	NH2	ARG	G	135	122.545	149.531	124.382	1.00	85.89
ATOM	12015	N	SER	G	136	126.177	151.877	128.619	1.00	87.94
ATOM	12016	CA	SER	G	136	127.615	151.735	128.835	1.00	88.08
ATOM	12017	C	SER	G	136	127.997	150.349	128.308	1.00	88.05
ATOM	12018	O	SER	G	136	127.128	149.573	127.911	1.00	86.18
ATOM	12019	CB	SER	G	136	127.958	151.829	130.330	1.00	87.74
ATOM	12020	OG	SER	G	136	127.788	153.143	130.840	1.00	87.13
ATOM	12021	N	ALA	G	137	129.294	150.044	128.296	1.00	89.25
ATOM	12022	CA	ALA	G	137	129.778	148.738	127.837	1.00	88.94
ATOM	12023	C	ALA	G	137	129.562	147.763	128.990	1.00	88.49
ATOM	12024	O	ALA	G	137	130.238	146.735	129.110	1.00	87.97
ATOM	12025	CB	ALA	G	137	131.269	148.819	127.485	1.00	90.30
ATOM	12026	N	ASN	G	138	128.593	148.106	129.830	1.00	87.14

ATOM	12027	CA	ASN	G	138	128.274	147.324	131.007	1.00	84.24
ATOM	12028	C	ASN	G	138	126.861	147.611	131.511	1.00	82.62
ATOM	12029	O	ASN	G	138	126.006	146.730	131.501	1.00	81.87
ATOM	12030	CB	ASN	G	138	129.300	147.651	132.088	1.00	84.36
ATOM	12031	CG	ASN	G	138	129.634	149.130	132.134	1.00	85.98
ATOM	12032	OD1	ASN	G	138	128.798	149.950	132.508	1.00	87.26
ATOM	12033	ND2	ASN	G	138	130.856	149.481	131.737	1.00	85.75
ATOM	12034	N	SER	G	139	126.613	148.847	131.938	1.00	80.48
ATOM	12035	CA	SER	G	139	125.300	149.231	132.462	1.00	78.07
ATOM	12036	C	SER	G	139	124.309	149.817	131.457	1.00	74.85
ATOM	12037	O	SER	G	139	124.682	150.471	130.485	1.00	74.67
ATOM	12038	CB	SER	G	139	125.464	150.219	133.622	1.00	79.02
ATOM	12039	OG	SER	G	139	126.061	149.598	134.745	1.00	83.37
ATOM	12040	N	LEU	G	140	123.033	149.570	131.726	1.00	71.53
ATOM	12041	CA	LEU	G	140	121.922	150.043	130.910	1.00	67.03
ATOM	12042	C	LEU	G	140	120.874	150.419	131.947	1.00	65.23
ATOM	12043	O	LEU	G	140	119.850	149.759	132.079	1.00	63.16
ATOM	12044	CB	LEU	G	140	121.395	148.908	130.035	1.00	66.38
ATOM	12045	CG	LEU	G	140	120.524	149.280	128.835	1.00	64.74
ATOM	12046	CD1	LEU	G	140	119.971	148.020	128.187	1.00	63.11
ATOM	12047	CD2	LEU	G	140	119.400	150.171	129.283	1.00	66.02
ATOM	12048	N	THR	G	141	121.165	151.478	132.693	1.00	63.93
ATOM	12049	CA	THR	G	141	120.309	151.967	133.769	1.00	61.50
ATOM	12050	C	THR	G	141	118.929	152.463	133.360	1.00	60.35
ATOM	12051	O	THR	G	141	118.806	153.514	132.731	1.00	59.72
ATOM	12052	CB	THR	G	141	120.992	153.116	134.500	1.00	62.27
ATOM	12053	OG1	THR	G	141	122.395	152.845	134.599	1.00	63.40
ATOM	12054	CG2	THR	G	141	120.393	153.289	135.891	1.00	62.88
ATOM	12055	N	LEU	G	142	117.893	151.716	133.736	1.00	57.60
ATOM	12056	CA	LEU	G	142	116.518	152.099	133.429	1.00	55.08
ATOM	12057	C	LEU	G	142	116.221	153.300	134.307	1.00	55.77
ATOM	12058	O	LEU	G	142	116.880	153.483	135.327	1.00	57.27
ATOM	12059	CB	LEU	G	142	115.560	150.976	133.794	1.00	51.83
ATOM	12060	CG	LEU	G	142	115.601	149.632	133.068	1.00	53.15
ATOM	12061	CD1	LEU	G	142	114.498	149.562	132.016	1.00	50.33
ATOM	12062	CD2	LEU	G	142	116.967	149.415	132.469	1.00	51.42
ATOM	12063	N	ILE	G	143	115.246	154.122	133.930	1.00	56.26
ATOM	12064	CA	ILE	G	143	114.923	155.294	134.745	1.00	57.45
ATOM	12065	C	ILE	G	143	113.488	155.800	134.595	1.00	57.24
ATOM	12066	O	ILE	G	143	113.158	156.545	133.677	1.00	59.13
ATOM	12067	CB	ILE	G	143	115.923	156.442	134.469	1.00	56.42
ATOM	12068	CG1	ILE	G	143	115.407	157.744	135.081	1.00	54.04
ATOM	12069	CG2	ILE	G	143	116.187	156.549	132.986	1.00	55.56
ATOM	12070	CD1	ILE	G	143	116.409	158.863	135.031	1.00	58.48
ATOM	12071	N	ASN	G	144	112.650	155.386	135.535	1.00	56.12
ATOM	12072	CA	ASN	G	144	111.239	155.733	135.560	1.00	54.90
ATOM	12073	C	ASN	G	144	110.991	156.974	136.414	1.00	53.43
ATOM	12074	O	ASN	G	144	111.123	156.939	137.633	1.00	53.08
ATOM	12075	CB	ASN	G	144	110.456	154.530	136.091	1.00	56.64
ATOM	12076	CG	ASN	G	144	109.036	154.867	136.459	1.00	59.04
ATOM	12077	OD1	ASN	G	144	108.442	155.811	135.930	1.00	58.63
ATOM	12078	ND2	ASN	G	144	108.469	154.077	137.362	1.00	61.74
ATOM	12079	N	PRO	G	145	110.632	158.092	135.770	1.00	51.70
ATOM	12080	CA	PRO	G	145	110.360	159.375	136.420	1.00	48.96
ATOM	12081	C	PRO	G	145	108.915	159.533	136.862	1.00	48.76
ATOM	12082	O	PRO	G	145	108.555	160.527	137.503	1.00	49.75
ATOM	12083	CB	PRO	G	145	110.716	160.368	135.334	1.00	49.12
ATOM	12084	CG	PRO	G	145	110.158	159.683	134.119	1.00	50.27
ATOM	12085	CD	PRO	G	145	110.650	158.252	134.303	1.00	51.82
ATOM	12086	N	THR	G	146	108.085	158.557	136.509	1.00	47.13
ATOM	12087	CA	THR	G	146	106.670	158.598	136.856	1.00	44.70
ATOM	12088	C	THR	G	146	106.435	158.109	138.277	1.00	44.60

ATOM	12089	O	THR G 146	107.351	157.622	138.945	1.00	46.08
ATOM	12090	CB	THR G 146	105.869	157.713	135.926	1.00	42.92
ATOM	12091	OG1	THR G 146	106.037	156.348	136.312	1.00	42.19
ATOM	12092	CG2	THR G 146	106.371	157.871	134.514	1.00	47.17
ATOM	12093	N	PRO G 147	105.200	158.240	138.767	1.00	42.06
ATOM	12094	CA	PRO G 147	104.931	157.776	140.127	1.00	39.60
ATOM	12095	C	PRO G 147	104.499	156.316	140.204	1.00	38.06
ATOM	12096	O	PRO G 147	104.112	155.844	141.269	1.00	38.82
ATOM	12097	CB	PRO G 147	103.845	158.725	140.594	1.00	40.55
ATOM	12098	CG	PRO G 147	103.076	158.974	139.335	1.00	37.37
ATOM	12099	CD	PRO G 147	104.165	159.186	138.321	1.00	39.70
ATOM	12100	N	TYR G 148	104.567	155.597	139.087	1.00	36.31
ATOM	12101	CA	TYR G 148	104.170	154.187	139.080	1.00	36.56
ATOM	12102	C	TYR G 148	105.337	153.218	138.947	1.00	35.09
ATOM	12103	O	TYR G 148	106.415	153.576	138.487	1.00	32.36
ATOM	12104	CB	TYR G 148	103.185	153.902	137.945	1.00	35.48
ATOM	12105	CG	TYR G 148	102.059	154.882	137.867	1.00	35.21
ATOM	12106	CD1	TYR G 148	102.285	156.192	137.445	1.00	37.49
ATOM	12107	CD2	TYR G 148	100.770	154.514	138.230	1.00	33.83
ATOM	12108	CE1	TYR G 148	101.252	157.108	137.386	1.00	37.88
ATOM	12109	CE2	TYR G 148	99.734	155.423	138.179	1.00	37.55
ATOM	12110	CZ	TYR G 148	99.981	156.719	137.759	1.00	38.30
ATOM	12111	OH	TYR G 148	98.958	157.633	137.745	1.00	42.43
ATOM	12112	N	TYR G 149	105.095	151.977	139.345	1.00	33.96
ATOM	12113	CA	TYR G 149	106.111	150.945	139.267	1.00	34.43
ATOM	12114	C	TYR G 149	106.126	150.315	137.878	1.00	33.68
ATOM	12115	O	TYR G 149	105.198	149.603	137.499	1.00	33.31
ATOM	12116	CB	TYR G 149	105.844	149.848	140.305	1.00	36.27
ATOM	12117	CG	TYR G 149	106.586	149.985	141.618	1.00	37.57
ATOM	12118	CD1	TYR G 149	106.090	150.771	142.648	1.00	40.52
ATOM	12119	CD2	TYR G 149	107.797	149.331	141.822	1.00	41.85
ATOM	12120	CE1	TYR G 149	106.783	150.907	143.857	1.00	41.93
ATOM	12121	CE2	TYR G 149	108.498	149.463	143.022	1.00	45.28
ATOM	12122	CZ	TYR G 149	107.986	150.252	144.035	1.00	42.17
ATOM	12123	OH	TYR G 149	108.683	150.384	145.212	1.00	38.68
ATOM	12124	N	LEU G 150	107.185	150.555	137.121	1.00	32.00
ATOM	12125	CA	LEU G 150	107.263	149.970	135.795	1.00	32.27
ATOM	12126	C	LEU G 150	107.817	148.556	135.847	1.00	33.43
ATOM	12127	O	LEU G 150	108.941	148.336	136.304	1.00	33.84
ATOM	12128	CB	LEU G 150	108.161	150.800	134.889	1.00	32.01
ATOM	12129	CG	LEU G 150	107.928	152.297	134.753	1.00	30.97
ATOM	12130	CD1	LEU G 150	108.842	152.790	133.640	1.00	33.58
ATOM	12131	CD2	LEU G 150	106.473	152.608	134.433	1.00	31.42
ATOM	12132	N	THR G 151	107.030	147.600	135.370	1.00	33.76
ATOM	12133	CA	THR G 151	107.458	146.207	135.342	1.00	34.52
ATOM	12134	C	THR G 151	107.954	145.959	133.926	1.00	35.37
ATOM	12135	O	THR G 151	107.232	145.402	133.105	1.00	38.59
ATOM	12136	CB	THR G 151	106.280	145.233	135.662	1.00	35.16
ATOM	12137	OG1	THR G 151	105.875	145.391	137.028	1.00	36.91
ATOM	12138	CG2	THR G 151	106.694	143.795	135.450	1.00	35.14
ATOM	12139	N	VAL G 152	109.182	146.400	133.652	1.00	35.84
ATOM	12140	CA	VAL G 152	109.834	146.273	132.343	1.00	33.67
ATOM	12141	C	VAL G 152	110.133	144.830	131.978	1.00	34.86
ATOM	12142	O	VAL G 152	110.716	144.105	132.756	1.00	37.89
ATOM	12143	CB	VAL G 152	111.160	147.057	132.331	1.00	31.79
ATOM	12144	CG1	VAL G 152	111.939	146.756	131.079	1.00	33.33
ATOM	12145	CG2	VAL G 152	110.882	148.538	132.449	1.00	30.83
ATOM	12146	N	THR G 153	109.754	144.423	130.781	1.00	37.60
ATOM	12147	CA	THR G 153	109.992	143.061	130.350	1.00	42.20
ATOM	12148	C	THR G 153	110.238	142.992	128.839	1.00	48.93
ATOM	12149	O	THR G 153	109.893	143.923	128.101	1.00	50.50
ATOM	12150	CB	THR G 153	108.808	142.194	130.715	1.00	39.38

ATOM	12151	OG1	THR	G	153	108.941	140.913	130.095	1.00	44.33
ATOM	12152	CG2	THR	G	153	107.528	142.850	130.253	1.00	43.85
ATOM	12153	N	GLU	G	154	110.825	141.885	128.379	1.00	53.74
ATOM	12154	CA	GLU	G	154	111.151	141.720	126.965	1.00	57.19
ATOM	12155	C	GLU	G	154	112.103	142.854	126.551	1.00	60.55
ATOM	12156	O	GLU	G	154	112.111	143.289	125.400	1.00	62.01
ATOM	12157	CB	GLU	G	154	109.882	141.753	126.099	1.00	55.02
ATOM	12158	CG	GLU	G	154	108.998	140.512	126.220	1.00	57.75
ATOM	12159	CD	GLU	G	154	108.081	140.303	125.009	1.00	58.03
ATOM	12160	OE1	GLU	G	154	108.229	141.039	124.013	1.00	59.01
ATOM	12161	OE2	GLU	G	154	107.218	139.396	125.043	1.00	56.37
ATOM	12162	N	LEU	G	155	112.899	143.326	127.509	1.00	63.23
ATOM	12163	CA	LEU	G	155	113.857	144.407	127.284	1.00	63.99
ATOM	12164	C	LEU	G	155	115.082	143.873	126.561	1.00	65.53
ATOM	12165	O	LEU	G	155	115.848	143.103	127.131	1.00	65.34
ATOM	12166	CB	LEU	G	155	114.290	145.009	128.623	1.00	61.85
ATOM	12167	CG	LEU	G	155	115.273	146.182	128.621	1.00	62.70
ATOM	12168	CD1	LEU	G	155	114.551	147.463	128.209	1.00	64.35
ATOM	12169	CD2	LEU	G	155	115.867	146.353	130.006	1.00	60.50
ATOM	12170	N	ASN	G	156	115.264	144.283	125.308	1.00	69.66
ATOM	12171	CA	ASN	G	156	116.416	143.848	124.509	1.00	72.02
ATOM	12172	C	ASN	G	156	117.282	145.048	124.151	1.00	73.76
ATOM	12173	O	ASN	G	156	116.776	146.160	123.962	1.00	72.78
ATOM	12174	CB	ASN	G	156	115.950	143.186	123.217	1.00	67.03
ATOM	12175	CG	ASN	G	156	114.683	142.416	123.404	1.00	65.67
ATOM	12176	OD1	ASN	G	156	114.665	141.364	124.046	1.00	63.54
ATOM	12177	ND2	ASN	G	156	113.595	142.948	122.866	1.00	63.70
ATOM	12178	N	ALA	G	157	118.590	144.825	124.075	1.00	75.58
ATOM	12179	CA	ALA	G	157	119.505	145.889	123.700	1.00	78.67
ATOM	12180	C	ALA	G	157	119.486	145.819	122.181	1.00	81.67
ATOM	12181	O	ALA	G	157	120.469	146.133	121.504	1.00	84.28
ATOM	12182	CB	ALA	G	157	120.896	145.603	124.236	1.00	77.31
ATOM	12183	N	GLY	G	158	118.336	145.398	121.660	1.00	83.09
ATOM	12184	CA	GLY	G	158	118.163	145.246	120.230	1.00	82.28
ATOM	12185	C	GLY	G	158	118.884	143.977	119.847	1.00	81.58
ATOM	12186	O	GLY	G	158	118.273	142.947	119.555	1.00	80.28
ATOM	12187	N	THR	G	159	120.207	144.056	119.863	1.00	81.18
ATOM	12188	CA	THR	G	159	121.022	142.908	119.535	1.00	81.87
ATOM	12189	C	THR	G	159	120.642	141.829	120.547	1.00	82.90
ATOM	12190	O	THR	G	159	119.717	141.040	120.333	1.00	82.18
ATOM	12191	CB	THR	G	159	122.528	143.246	119.677	1.00	80.50
ATOM	12192	OG1	THR	G	159	122.767	144.577	119.205	1.00	75.71
ATOM	12193	CG2	THR	G	159	123.374	142.272	118.867	1.00	77.70
ATOM	12194	N	ARG	G	160	121.350	141.839	121.666	1.00	83.49
ATOM	12195	CA	ARG	G	160	121.150	140.891	122.745	1.00	84.02
ATOM	12196	C	ARG	G	160	119.848	141.189	123.504	1.00	84.00
ATOM	12197	O	ARG	G	160	119.351	142.322	123.493	1.00	84.43
ATOM	12198	CB	ARG	G	160	122.352	140.995	123.691	1.00	86.72
ATOM	12199	CG	ARG	G	160	122.599	139.809	124.610	1.00	92.28
ATOM	12200	CD	ARG	G	160	123.164	138.610	123.854	1.00	94.01
ATOM	12201	NE	ARG	G	160	123.649	137.567	124.760	1.00	93.69
ATOM	12202	CZ	ARG	G	160	122.902	136.939	125.666	1.00	92.31
ATOM	12203	NH1	ARG	G	160	121.615	137.236	125.803	1.00	89.82
ATOM	12204	NH2	ARG	G	160	123.449	136.011	126.442	1.00	92.22
ATOM	12205	N	VAL	G	161	119.291	140.162	124.147	1.00	83.01
ATOM	12206	CA	VAL	G	161	118.074	140.310	124.955	1.00	80.54
ATOM	12207	C	VAL	G	161	118.566	140.795	126.326	1.00	78.78
ATOM	12208	O	VAL	G	161	119.732	141.163	126.462	1.00	80.14
ATOM	12209	CB	VAL	G	161	117.331	138.951	125.121	1.00	80.21
ATOM	12210	CG1	VAL	G	161	118.160	137.996	125.974	1.00	77.67
ATOM	12211	CG2	VAL	G	161	115.955	139.174	125.735	1.00	78.35
ATOM	12212	N	LEU	G	162	117.711	140.798	127.343	1.00	75.01

ATOM	12213	CA	LEU	G	162	118.159	141.251	128.656	1.00	70.03
ATOM	12214	C	LEU	G	162	117.349	140.774	129.848	1.00	67.92
ATOM	12215	O	LEU	G	162	116.395	140.003	129.718	1.00	68.34
ATOM	12216	CB	LEU	G	162	118.241	142.772	128.686	1.00	70.20
ATOM	12217	CG	LEU	G	162	119.404	143.379	127.905	1.00	71.25
ATOM	12218	CD1	LEU	G	162	119.313	144.896	127.920	1.00	70.77
ATOM	12219	CD2	LEU	G	162	120.712	142.906	128.522	1.00	73.58
ATOM	12220	N	GLU	G	163	117.743	141.260	131.018	1.00	64.53
ATOM	12221	CA	GLU	G	163	117.104	140.890	132.272	1.00	59.91
ATOM	12222	C	GLU	G	163	115.908	141.774	132.573	1.00	56.19
ATOM	12223	O	GLU	G	163	116.039	143.004	132.590	1.00	55.34
ATOM	12224	CB	GLU	G	163	118.119	141.006	133.412	1.00	60.97
ATOM	12225	CG	GLU	G	163	117.825	140.113	134.585	1.00	65.61
ATOM	12226	CD	GLU	G	163	117.756	138.653	134.178	1.00	71.17
ATOM	12227	OE1	GLU	G	163	116.867	138.298	133.367	1.00	73.98
ATOM	12228	OE2	GLU	G	163	118.594	137.860	134.665	1.00	73.89
ATOM	12229	N	ASN	G	164	114.746	141.160	132.808	1.00	50.59
ATOM	12230	CA	ASN	G	164	113.545	141.929	133.134	1.00	46.71
ATOM	12231	C	ASN	G	164	113.866	142.915	134.254	1.00	43.75
ATOM	12232	O	ASN	G	164	114.914	142.829	134.876	1.00	47.66
ATOM	12233	CB	ASN	G	164	112.426	141.008	133.605	1.00	48.25
ATOM	12234	CG	ASN	G	164	111.821	140.202	132.489	1.00	47.14
ATOM	12235	OD1	ASN	G	164	111.388	140.749	131.478	1.00	51.85
ATOM	12236	ND2	ASN	G	164	111.766	138.896	132.671	1.00	49.91
ATOM	12237	N	ALA	G	165	112.972	143.843	134.538	1.00	39.95
ATOM	12238	CA	ALA	G	165	113.259	144.801	135.593	1.00	38.85
ATOM	12239	C	ALA	G	165	112.004	145.363	136.216	1.00	38.21
ATOM	12240	O	ALA	G	165	110.939	145.376	135.598	1.00	39.54
ATOM	12241	CB	ALA	G	165	114.107	145.939	135.048	1.00	36.47
ATOM	12242	N	LEU	G	166	112.127	145.802	137.460	1.00	34.56
ATOM	12243	CA	LEU	G	166	111.006	146.408	138.141	1.00	31.80
ATOM	12244	C	LEU	G	166	111.549	147.767	138.527	1.00	32.23
ATOM	12245	O	LEU	G	166	112.201	147.925	139.546	1.00	35.13
ATOM	12246	CB	LEU	G	166	110.610	145.587	139.366	1.00	27.39
ATOM	12247	CG	LEU	G	166	109.533	146.220	140.257	1.00	28.34
ATOM	12248	CD1	LEU	G	166	108.317	146.651	139.452	1.00	22.37
ATOM	12249	CD2	LEU	G	166	109.144	145.222	141.311	1.00	31.83
ATOM	12250	N	VAL	G	167	111.302	148.760	137.694	1.00	33.35
ATOM	12251	CA	VAL	G	167	111.842	150.070	137.985	1.00	36.37
ATOM	12252	C	VAL	G	167	110.916	150.896	138.828	1.00	37.45
ATOM	12253	O	VAL	G	167	109.867	151.363	138.365	1.00	34.89
ATOM	12254	CB	VAL	G	167	112.179	150.857	136.706	1.00	39.37
ATOM	12255	CG1	VAL	G	167	113.043	152.063	137.067	1.00	39.66
ATOM	12256	CG2	VAL	G	167	112.898	149.952	135.702	1.00	38.65
ATOM	12257	N	PRO	G	168	111.307	151.099	140.090	1.00	38.99
ATOM	12258	CA	PRO	G	168	110.556	151.874	141.078	1.00	39.69
ATOM	12259	C	PRO	G	168	110.232	153.303	140.615	1.00	41.73
ATOM	12260	O	PRO	G	168	110.957	153.902	139.813	1.00	43.05
ATOM	12261	CB	PRO	G	168	111.471	151.842	142.294	1.00	39.12
ATOM	12262	CG	PRO	G	168	112.857	151.727	141.680	1.00	37.63
ATOM	12263	CD	PRO	G	168	112.624	150.701	140.620	1.00	36.99
ATOM	12264	N	PRO	G	169	109.128	153.867	141.118	1.00	42.35
ATOM	12265	CA	PRO	G	169	108.721	155.223	140.752	1.00	43.78
ATOM	12266	C	PRO	G	169	109.831	156.246	140.990	1.00	44.18
ATOM	12267	O	PRO	G	169	110.519	156.206	142.004	1.00	44.60
ATOM	12268	CB	PRO	G	169	107.515	155.470	141.655	1.00	44.59
ATOM	12269	CG	PRO	G	169	106.943	154.103	141.827	1.00	44.15
ATOM	12270	CD	PRO	G	169	108.174	153.277	142.070	1.00	42.72
ATOM	12271	N	MET	G	170	110.006	157.158	140.046	1.00	44.94
ATOM	12272	CA	MET	G	170	111.008	158.196	140.189	1.00	43.36
ATOM	12273	C	MET	G	170	112.335	157.625	140.663	1.00	42.21
ATOM	12274	O	MET	G	170	113.014	158.204	141.500	1.00	41.80

ATOM	12275	CB	MET	G	170	110.490	159.229	141.172	1.00	42.39
ATOM	12276	CG	MET	G	170	109.076	159.626	140.870	1.00	43.84
ATOM	12277	SD	MET	G	170	108.566	161.011	141.864	1.00	59.00
ATOM	12278	CE	MET	G	170	107.413	160.244	142.998	1.00	52.00
ATOM	12279	N	GLY	G	171	112.701	156.479	140.120	1.00	41.76
ATOM	12280	CA	GLY	G	171	113.950	155.868	140.511	1.00	44.55
ATOM	12281	C	GLY	G	171	114.493	155.098	139.340	1.00	46.74
ATOM	12282	O	GLY	G	171	113.871	155.057	138.285	1.00	49.54
ATOM	12283	N	GLU	G	172	115.648	154.478	139.518	1.00	48.56
ATOM	12284	CA	GLU	G	172	116.261	153.720	138.442	1.00	50.10
ATOM	12285	C	GLU	G	172	116.371	152.248	138.807	1.00	50.42
ATOM	12286	O	GLU	G	172	115.904	151.811	139.852	1.00	51.27
ATOM	12287	CB	GLU	G	172	117.660	154.272	138.146	1.00	53.28
ATOM	12288	CG	GLU	G	172	117.769	155.796	138.214	1.00	58.08
ATOM	12289	CD	GLU	G	172	119.182	156.293	137.972	1.00	60.27
ATOM	12290	OE1	GLU	G	172	120.115	155.668	138.523	1.00	62.50
ATOM	12291	OE2	GLU	G	172	119.357	157.303	137.247	1.00	58.62
ATOM	12292	N	SER	G	173	117.002	151.496	137.920	1.00	51.51
ATOM	12293	CA	SER	G	173	117.226	150.072	138.090	1.00	54.23
ATOM	12294	C	SER	G	173	118.238	149.725	137.018	1.00	56.65
ATOM	12295	O	SER	G	173	117.956	149.835	135.822	1.00	57.78
ATOM	12296	CB	SER	G	173	115.941	149.278	137.858	1.00	54.85
ATOM	12297	OG	SER	G	173	114.903	149.712	138.718	1.00	59.26
ATOM	12298	N	THR	G	174	119.429	149.334	137.439	1.00	20.00
ATOM	12299	CG2	THR	G	174	122.139	150.430	137.770	1.00	20.00
ATOM	12300	OG1	THR	G	174	121.918	148.103	138.203	1.00	20.00
ATOM	12301	CB	THR	G	174	121.844	149.060	137.159	1.00	20.00
ATOM	12302	CA	THR	G	174	120.467	148.992	136.485	1.00	20.00
ATOM	12303	C	THR	G	174	120.253	147.574	135.960	1.00	20.00
ATOM	12304	O	THR	G	174	119.590	146.758	136.596	1.00	20.00
ATOM	12305	N	VAL	G	175	120.810	147.298	134.789	1.00	64.80
ATOM	12306	CA	VAL	G	175	120.717	145.986	134.161	1.00	69.26
ATOM	12307	C	VAL	G	175	122.032	145.788	133.419	1.00	73.32
ATOM	12308	O	VAL	G	175	122.545	146.738	132.822	1.00	76.18
ATOM	12309	CB	VAL	G	175	119.580	145.944	133.134	1.00	68.52
ATOM	12310	CG1	VAL	G	175	119.420	144.530	132.578	1.00	69.53
ATOM	12311	CG2	VAL	G	175	118.307	146.428	133.771	1.00	70.53
ATOM	12312	N	LYS	G	176	122.588	144.579	133.439	1.00	74.51
ATOM	12313	CA	LYS	G	176	123.849	144.356	132.739	1.00	75.96
ATOM	12314	C	LYS	G	176	123.669	144.594	131.244	1.00	77.33
ATOM	12315	O	LYS	G	176	122.584	144.382	130.698	1.00	76.82
ATOM	12316	CB	LYS	G	176	124.369	142.941	132.992	1.00	76.79
ATOM	12317	CG	LYS	G	176	124.744	142.669	134.440	1.00	81.68
ATOM	12318	CD	LYS	G	176	123.509	142.681	135.356	1.00	85.10
ATOM	12319	CE	LYS	G	176	123.631	143.701	136.495	1.00	83.57
ATOM	12320	NZ	LYS	G	176	124.737	143.377	137.441	1.00	81.41
ATOM	12321	N	LEU	G	177	124.735	145.042	130.590	1.00	79.09
ATOM	12322	CA	LEU	G	177	124.706	145.330	129.160	1.00	82.87
ATOM	12323	C	LEU	G	177	125.834	144.561	128.463	1.00	85.55
ATOM	12324	O	LEU	G	177	126.973	145.031	128.392	1.00	85.08
ATOM	12325	CB	LEU	G	177	124.860	146.839	128.955	1.00	81.86
ATOM	12326	CG	LEU	G	177	124.358	147.482	127.663	1.00	81.32
ATOM	12327	CD1	LEU	G	177	122.953	147.006	127.337	1.00	78.23
ATOM	12328	CD2	LEU	G	177	124.386	148.990	127.831	1.00	80.67
ATOM	12329	N	PRO	G	178	125.518	143.362	127.936	1.00	88.31
ATOM	12330	CA	PRO	G	178	126.416	142.437	127.234	1.00	91.73
ATOM	12331	C	PRO	G	178	126.802	142.754	125.791	1.00	94.69
ATOM	12332	O	PRO	G	178	126.393	142.041	124.874	1.00	95.61
ATOM	12333	CB	PRO	G	178	125.670	141.112	127.332	1.00	90.38
ATOM	12334	CG	PRO	G	178	124.268	141.548	127.163	1.00	90.70
ATOM	12335	CD	PRO	G	178	124.182	142.756	128.080	1.00	89.01
ATOM	12336	N	SER	G	179	127.606	143.803	125.609	1.00	98.08

ATOM	12337	CA	SER	G	179	128.099	144.247	124.293	1.00100.69
ATOM	12338	C	SER	G	179	127.070	144.304	123.156	1.00100.98
ATOM	12339	O	SER	G	179	126.771	145.382	122.640	1.00101.01
ATOM	12340	CB	SER	G	179	129.293	143.381	123.866	1.00101.31
ATOM	12341	OG	SER	G	179	130.390	143.549	124.754	1.00102.15
ATOM	12342	N	ASP	G	180	126.556	143.144	122.757	1.00101.40
ATOM	12343	CA	ASP	G	180	125.550	143.054	121.701	1.00100.71
ATOM	12344	C	ASP	G	180	124.438	144.027	122.065	1.00 99.39
ATOM	12345	O	ASP	G	180	123.448	143.638	122.681	1.00 98.70
ATOM	12346	CB	ASP	G	180	124.952	141.641	121.641	1.00102.29
ATOM	12347	CG	ASP	G	180	125.992	140.544	121.815	1.00103.66
ATOM	12348	OD1	ASP	G	180	127.205	140.851	121.856	1.00105.25
ATOM	12349	OD2	ASP	G	180	125.583	139.366	121.911	1.00101.37
ATOM	12350	N	ALA	G	181	124.594	145.288	121.688	1.00 98.46
ATOM	12351	CA	ALA	G	181	123.588	146.288	122.013	1.00 98.12
ATOM	12352	C	ALA	G	181	123.326	147.245	120.863	1.00 97.23
ATOM	12353	O	ALA	G	181	122.270	147.204	120.228	1.00 96.84
ATOM	12354	CB	ALA	G	181	124.021	147.071	123.244	1.00 98.82
ATOM	12355	N	GLY	G	182	124.301	148.110	120.606	1.00 96.56
ATOM	12356	CA	GLY	G	182	124.162	149.084	119.543	1.00 94.64
ATOM	12357	C	GLY	G	182	123.424	150.301	120.055	1.00 92.63
ATOM	12358	O	GLY	G	182	124.039	151.322	120.367	1.00 91.62
ATOM	12359	N	SER	G	183	122.103	150.183	120.159	1.00 91.31
ATOM	12360	CA	SER	G	183	121.266	151.276	120.634	1.00 89.34
ATOM	12361	C	SER	G	183	119.795	150.973	120.416	1.00 87.66
ATOM	12362	O	SER	G	183	118.923	151.686	120.920	1.00 87.64
ATOM	12363	CB	SER	G	183	121.614	152.567	119.895	1.00 90.20
ATOM	12364	OG	SER	G	183	120.649	153.572	120.148	1.00 92.31
ATOM	12365	N	ASN	G	184	119.516	149.914	119.667	1.00 85.04
ATOM	12366	CA	ASN	G	184	118.134	149.565	119.371	1.00 83.51
ATOM	12367	C	ASN	G	184	117.368	148.959	120.544	1.00 80.79
ATOM	12368	O	ASN	G	184	117.193	147.744	120.623	1.00 78.99
ATOM	12369	CB	ASN	G	184	118.072	148.619	118.168	1.00 84.39
ATOM	12370	CG	ASN	G	184	116.662	148.456	117.635	1.00 84.43
ATOM	12371	OD1	ASN	G	184	115.964	149.442	117.384	1.00 83.49
ATOM	12372	ND2	ASN	G	184	116.233	147.210	117.458	1.00 85.70
ATOM	12373	N	ILE	G	185	116.889	149.815	121.442	1.00 77.74
ATOM	12374	CA	ILE	G	185	116.137	149.337	122.594	1.00 73.93
ATOM	12375	C	ILE	G	185	114.703	148.948	122.257	1.00 70.58
ATOM	12376	O	ILE	G	185	113.967	149.692	121.607	1.00 68.30
ATOM	12377	CB	ILE	G	185	116.105	150.375	123.731	1.00 74.42
ATOM	12378	CG1	ILE	G	185	117.521	150.591	124.289	1.00 72.76
ATOM	12379	CG2	ILE	G	185	115.133	149.924	124.807	1.00 73.88
ATOM	12380	CD1	ILE	G	185	118.330	149.314	124.475	1.00 70.73
ATOM	12381	N	THR	G	186	114.320	147.769	122.729	1.00 67.94
ATOM	12382	CA	THR	G	186	112.994	147.228	122.494	1.00 63.65
ATOM	12383	C	THR	G	186	112.475	146.589	123.778	1.00 61.27
ATOM	12384	O	THR	G	186	112.947	145.524	124.176	1.00 61.22
ATOM	12385	CB	THR	G	186	113.056	146.164	121.415	1.00 61.32
ATOM	12386	OG1	THR	G	186	114.124	146.476	120.518	1.00 60.89
ATOM	12387	CG2	THR	G	186	111.755	146.120	120.645	1.00 62.28
ATOM	12388	N	TYR	G	187	111.502	147.233	124.417	1.00 57.45
ATOM	12389	CA	TYR	G	187	110.945	146.708	125.658	1.00 54.21
ATOM	12390	C	TYR	G	187	109.418	146.747	125.668	1.00 52.87
ATOM	12391	O	TYR	G	187	108.796	147.420	124.844	1.00 54.95
ATOM	12392	CB	TYR	G	187	111.474	147.521	126.833	1.00 51.97
ATOM	12393	CG	TYR	G	187	110.839	148.880	126.938	1.00 47.23
ATOM	12394	CD1	TYR	G	187	111.332	149.955	126.218	1.00 48.03
ATOM	12395	CD2	TYR	G	187	109.734	149.089	127.748	1.00 45.99
ATOM	12396	CE1	TYR	G	187	110.738	151.212	126.307	1.00 48.28
ATOM	12397	CE2	TYR	G	187	109.137	150.337	127.844	1.00 46.12
ATOM	12398	CZ	TYR	G	187	109.645	151.392	127.125	1.00 45.66

ATOM	12399	OH	TYR	G	187	109.075	152.632	127.245	1.00	46.33
ATOM	12400	N	ARG	G	188	108.831	146.023	126.618	1.00	49.67
ATOM	12401	CA	ARG	G	188	107.380	145.953	126.801	1.00	45.05
ATOM	12402	C	ARG	G	188	107.112	145.939	128.302	1.00	41.33
ATOM	12403	O	ARG	G	188	107.911	145.396	129.054	1.00	41.81
ATOM	12404	CB	ARG	G	188	106.828	144.668	126.185	1.00	45.57
ATOM	12405	CG	ARG	G	188	107.142	144.486	124.718	1.00	45.58
ATOM	12406	CD	ARG	G	188	106.637	143.144	124.201	1.00	45.59
ATOM	12407	NE	ARG	G	188	105.191	143.032	124.284	1.00	48.27
ATOM	12408	CZ	ARG	G	188	104.354	143.839	123.649	1.00	49.81
ATOM	12409	NH1	ARG	G	188	104.828	144.807	122.890	1.00	50.57
ATOM	12410	NH2	ARG	G	188	103.045	143.683	123.774	1.00	54.59
ATOM	12411	N	THR	G	189	106.010	146.527	128.751	1.00	35.42
ATOM	12412	CA	THR	G	189	105.731	146.517	130.181	1.00	33.70
ATOM	12413	C	THR	G	189	104.449	145.787	130.517	1.00	36.98
ATOM	12414	O	THR	G	189	103.591	145.601	129.646	1.00	41.44
ATOM	12415	CB	THR	G	189	105.594	147.905	130.731	1.00	30.15
ATOM	12416	OG1	THR	G	189	104.435	148.516	130.159	1.00	26.41
ATOM	12417	CG2	THR	G	189	106.838	148.718	130.425	1.00	26.59
ATOM	12418	N	ILE	G	190	104.306	145.382	131.780	1.00	34.36
ATOM	12419	CA	ILE	G	190	103.105	144.677	132.203	1.00	32.37
ATOM	12420	C	ILE	G	190	102.160	145.674	132.849	1.00	33.53
ATOM	12421	O	ILE	G	190	102.534	146.339	133.809	1.00	35.75
ATOM	12422	CB	ILE	G	190	103.468	143.546	133.160	1.00	30.97
ATOM	12423	CG1	ILE	G	190	104.324	142.525	132.412	1.00	30.05
ATOM	12424	CG2	ILE	G	190	102.217	142.872	133.687	1.00	28.17
ATOM	12425	CD1	ILE	G	190	104.741	141.333	133.239	1.00	32.30
ATOM	12426	N	ASN	G	191	100.945	145.789	132.310	1.00	33.08
ATOM	12427	CA	ASN	G	191	99.969	146.759	132.822	1.00	34.97
ATOM	12428	C	ASN	G	191	99.072	146.301	133.978	1.00	33.29
ATOM	12429	O	ASN	G	191	99.036	145.120	134.328	1.00	31.77
ATOM	12430	CB	ASN	G	191	99.077	147.274	131.677	1.00	36.69
ATOM	12431	CG	ASN	G	191	98.089	146.236	131.198	1.00	39.20
ATOM	12432	OD1	ASN	G	191	97.326	145.673	131.981	1.00	42.87
ATOM	12433	ND2	ASN	G	191	98.092	145.980	129.906	1.00	44.15
ATOM	12434	N	ASP	G	192	98.339	147.264	134.539	1.00	30.89
ATOM	12435	CA	ASP	G	192	97.430	147.045	135.658	1.00	29.86
ATOM	12436	C	ASP	G	192	96.562	145.806	135.559	1.00	30.20
ATOM	12437	O	ASP	G	192	95.993	145.364	136.551	1.00	31.54
ATOM	12438	CB	ASP	G	192	96.523	148.259	135.847	1.00	33.83
ATOM	12439	CG	ASP	G	192	97.240	149.440	136.484	1.00	37.84
ATOM	12440	OD1	ASP	G	192	98.390	149.266	136.935	1.00	43.23
ATOM	12441	OD2	ASP	G	192	96.649	150.543	136.541	1.00	39.68
ATOM	12442	N	TYR	G	193	96.455	145.231	134.371	1.00	31.09
ATOM	12443	CA	TYR	G	193	95.622	144.046	134.206	1.00	31.36
ATOM	12444	C	TYR	G	193	96.441	142.810	133.901	1.00	32.56
ATOM	12445	O	TYR	G	193	95.902	141.780	133.491	1.00	33.61
ATOM	12446	CB	TYR	G	193	94.592	144.307	133.123	1.00	25.93
ATOM	12447	CG	TYR	G	193	93.882	145.600	133.377	1.00	22.18
ATOM	12448	CD1	TYR	G	193	93.044	145.739	134.470	1.00	22.74
ATOM	12449	CD2	TYR	G	193	94.087	146.700	132.562	1.00	22.54
ATOM	12450	CE1	TYR	G	193	92.424	146.941	134.746	1.00	26.81
ATOM	12451	CE2	TYR	G	193	93.474	147.916	132.829	1.00	24.75
ATOM	12452	CZ	TYR	G	193	92.639	148.035	133.921	1.00	27.59
ATOM	12453	OH	TYR	G	193	91.999	149.239	134.182	1.00	30.18
ATOM	12454	N	GLY	G	194	97.748	142.930	134.120	1.00	31.65
ATOM	12455	CA	GLY	G	194	98.654	141.820	133.911	1.00	32.38
ATOM	12456	C	GLY	G	194	98.821	141.485	132.454	1.00	33.06
ATOM	12457	O	GLY	G	194	99.211	140.367	132.094	1.00	31.24
ATOM	12458	N	ALA	G	195	98.525	142.474	131.619	1.00	34.65
ATOM	12459	CA	ALA	G	195	98.627	142.330	130.177	1.00	35.52
ATOM	12460	C	ALA	G	195	99.791	143.144	129.634	1.00	35.28

ATOM	12461	O	ALA	G	195	100.074	144.245	130.123	1.00	36.03
ATOM	12462	CB	ALA	G	195	97.330	142.775	129.535	1.00	37.37
ATOM	12463	N	LEU	G	196	100.466	142.586	128.634	1.00	34.66
ATOM	12464	CA	LEU	G	196	101.602	143.236	127.988	1.00	36.15
ATOM	12465	C	LEU	G	196	101.181	144.473	127.219	1.00	37.98
ATOM	12466	O	LEU	G	196	100.108	144.502	126.624	1.00	37.40
ATOM	12467	CB	LEU	G	196	102.251	142.286	126.996	1.00	33.06
ATOM	12468	CG	LEU	G	196	103.268	141.276	127.498	1.00	32.98
ATOM	12469	CD1	LEU	G	196	103.079	139.946	126.798	1.00	28.57
ATOM	12470	CD2	LEU	G	196	104.653	141.831	127.253	1.00	33.06
ATOM	12471	N	THR	G	197	102.027	145.495	127.234	1.00	40.42
ATOM	12472	CA	THR	G	197	101.749	146.701	126.477	1.00	43.05
ATOM	12473	C	THR	G	197	102.608	146.578	125.210	1.00	47.90
ATOM	12474	O	THR	G	197	103.552	145.778	125.157	1.00	46.46
ATOM	12475	CB	THR	G	197	102.114	147.989	127.265	1.00	40.68
ATOM	12476	OG1	THR	G	197	103.539	148.138	127.358	1.00	39.00
ATOM	12477	CG2	THR	G	197	101.522	147.920	128.647	1.00	40.94
ATOM	12478	N	PRO	G	198	102.282	147.358	124.170	1.00	50.97
ATOM	12479	CA	PRO	G	198	102.980	147.377	122.878	1.00	51.82
ATOM	12480	C	PRO	G	198	104.483	147.654	122.936	1.00	51.80
ATOM	12481	O	PRO	G	198	104.944	148.435	123.778	1.00	50.16
ATOM	12482	CB	PRO	G	198	102.232	148.464	122.107	1.00	55.95
ATOM	12483	CG	PRO	G	198	101.774	149.400	123.220	1.00	52.77
ATOM	12484	CD	PRO	G	198	101.252	148.413	124.220	1.00	51.28
ATOM	12485	N	LYS	G	199	105.232	147.028	122.019	1.00	51.03
ATOM	12486	CA	LYS	G	199	106.676	147.206	121.952	1.00	49.57
ATOM	12487	C	LYS	G	199	106.935	148.685	121.964	1.00	50.26
ATOM	12488	O	LYS	G	199	106.025	149.478	121.731	1.00	51.00
ATOM	12489	CB	LYS	G	199	107.258	146.609	120.671	1.00	48.87
ATOM	12490	CG	LYS	G	199	107.301	145.090	120.657	1.00	53.96
ATOM	12491	CD	LYS	G	199	108.198	144.544	119.541	1.00	56.63
ATOM	12492	CE	LYS	G	199	108.413	143.027	119.684	1.00	58.87
ATOM	12493	NZ	LYS	G	199	109.364	142.477	118.673	1.00	55.02
ATOM	12494	N	MET	G	200	108.169	149.064	122.249	1.00	50.20
ATOM	12495	CA	MET	G	200	108.523	150.469	122.274	1.00	52.01
ATOM	12496	C	MET	G	200	110.009	150.575	122.054	1.00	53.92
ATOM	12497	O	MET	G	200	110.738	149.612	122.300	1.00	56.10
ATOM	12498	CB	MET	G	200	108.112	151.096	123.606	1.00	50.70
ATOM	12499	CG	MET	G	200	106.612	151.324	123.700	1.00	51.57
ATOM	12500	SD	MET	G	200	105.986	151.744	125.330	1.00	56.69
ATOM	12501	CE	MET	G	200	106.328	153.501	125.374	1.00	54.91
ATOM	12502	N	THR	G	201	110.461	151.729	121.570	1.00	54.31
ATOM	12503	CA	THR	G	201	111.878	151.913	121.317	1.00	54.40
ATOM	12504	C	THR	G	201	112.510	152.820	122.352	1.00	56.71
ATOM	12505	O	THR	G	201	112.046	153.929	122.598	1.00	55.49
ATOM	12506	CB	THR	G	201	112.113	152.474	119.918	1.00	52.96
ATOM	12507	OG1	THR	G	201	111.476	151.616	118.964	1.00	49.77
ATOM	12508	CG2	THR	G	201	113.605	152.535	119.605	1.00	52.40
ATOM	12509	N	GLY	G	202	113.578	152.318	122.959	1.00	60.14
ATOM	12510	CA	GLY	G	202	114.275	153.061	123.987	1.00	65.61
ATOM	12511	C	GLY	G	202	114.707	154.459	123.607	1.00	68.07
ATOM	12512	O	GLY	G	202	115.377	154.664	122.598	1.00	68.99
ATOM	12513	N	VAL	G	203	114.318	155.417	124.442	1.00	70.77
ATOM	12514	CA	VAL	G	203	114.649	156.823	124.256	1.00	72.74
ATOM	12515	C	VAL	G	203	115.630	157.252	125.346	1.00	75.25
ATOM	12516	O	VAL	G	203	115.209	157.573	126.465	1.00	76.28
ATOM	12517	CB	VAL	G	203	113.383	157.698	124.371	1.00	71.89
ATOM	12518	CG1	VAL	G	203	113.748	159.177	124.242	1.00	71.07
ATOM	12519	CG2	VAL	G	203	112.375	157.286	123.312	1.00	71.62
ATOM	12520	N	MET	G	204	116.927	157.253	125.035	1.00	76.73
ATOM	12521	CA	MET	G	204	117.931	157.655	126.023	1.00	79.70
ATOM	12522	C	MET	G	204	117.639	159.064	126.500	1.00	80.44

ATOM	12523	O	MET	G	204	116.977	159.837	125.810	1.00	82.08
ATOM	12524	CB	MET	G	204	119.343	157.613	125.437	1.00	80.56
ATOM	12525	CG	MET	G	204	119.865	156.222	125.168	1.00	86.11
ATOM	12526	SD	MET	G	204	118.779	155.295	124.058	1.00	94.96
ATOM	12527	CE	MET	G	204	119.285	155.932	122.443	1.00	92.69
ATOM	12528	N	GLU	G	205	118.126	159.395	127.686	1.00	80.41
ATOM	12529	CA	GLU	G	205	117.915	160.721	128.233	1.00	81.38
ATOM	12530	C	GLU	G	205	119.066	161.617	127.791	1.00	81.41
ATOM	12531	O	GLU	G	205	118.803	162.656	127.148	1.00	80.84
ATOM	12532	CB	GLU	G	205	117.866	160.646	129.752	1.00	83.27
ATOM	12533	CG	GLU	G	205	119.041	159.903	130.330	1.00	86.91
ATOM	12534	CD	GLU	G	205	119.044	159.919	131.834	1.00	90.31
ATOM	12535	OE1	GLU	G	205	118.113	160.515	132.429	1.00	89.10
ATOM	12536	OE2	GLU	G	205	119.982	159.332	132.414	1.00	92.95
ATOM	12537	OXT	GLU	G	205	120.224	161.259	128.089	1.00	81.27
ATOM	12538	N	PHE	H	1	54.957	151.521	112.472	1.00	22.08
ATOM	12539	CA	PHE	H	1	55.912	151.095	113.519	1.00	19.84
ATOM	12540	C	PHE	H	1	57.258	151.778	113.241	1.00	20.43
ATOM	12541	O	PHE	H	1	57.740	151.824	112.103	1.00	16.80
ATOM	12542	CB	PHE	H	1	56.016	149.557	113.507	1.00	20.47
ATOM	12543	CG	PHE	H	1	57.042	149.002	114.456	1.00	19.48
ATOM	12544	CD1	PHE	H	1	58.381	148.922	114.085	1.00	18.15
ATOM	12545	CD2	PHE	H	1	56.668	148.582	115.728	1.00	17.65
ATOM	12546	CE1	PHE	H	1	59.326	148.441	114.956	1.00	20.95
ATOM	12547	CE2	PHE	H	1	57.600	148.096	116.617	1.00	15.92
ATOM	12548	CZ	PHE	H	1	58.938	148.023	116.234	1.00	24.26
ATOM	12549	N	ALA	H	2	57.852	152.338	114.286	1.00	22.43
ATOM	12550	CA	ALA	H	2	59.138	153.021	114.147	1.00	22.48
ATOM	12551	C	ALA	H	2	59.994	152.891	115.397	1.00	22.56
ATOM	12552	O	ALA	H	2	59.488	152.626	116.499	1.00	24.38
ATOM	12553	CB	ALA	H	2	58.915	154.481	113.846	1.00	21.35
ATOM	12554	N	CYS	H	3	61.297	153.070	115.232	1.00	17.96
ATOM	12555	CA	CYS	H	3	62.166	152.987	116.380	1.00	19.60
ATOM	12556	C	CYS	H	3	63.190	154.104	116.319	1.00	20.39
ATOM	12557	O	CYS	H	3	63.553	154.561	115.243	1.00	19.77
ATOM	12558	CB	CYS	H	3	62.879	151.648	116.418	1.00	20.94
ATOM	12559	SG	CYS	H	3	61.854	150.159	116.245	1.00	30.58
ATOM	12560	N	LYS	H	4	63.639	154.557	117.481	1.00	20.43
ATOM	12561	CA	LYS	H	4	64.636	155.592	117.522	1.00	22.73
ATOM	12562	C	LYS	H	4	65.680	155.171	118.542	1.00	24.66
ATOM	12563	O	LYS	H	4	65.417	154.384	119.464	1.00	22.06
ATOM	12564	CB	LYS	H	4	64.026	156.945	117.896	1.00	24.80
ATOM	12565	CG	LYS	H	4	63.898	157.216	119.396	1.00	33.03
ATOM	12566	CD	LYS	H	4	63.239	158.585	119.713	1.00	41.89
ATOM	12567	CE	LYS	H	4	63.946	159.805	119.061	1.00	49.54
ATOM	12568	NZ	LYS	H	4	63.599	160.086	117.611	1.00	49.95
ATOM	12569	N	THR	H	5	66.871	155.712	118.346	1.00	23.48
ATOM	12570	CA	THR	H	5	68.014	155.436	119.179	1.00	21.77
ATOM	12571	C	THR	H	5	68.085	156.461	120.305	1.00	25.65
ATOM	12572	O	THR	H	5	67.728	157.618	120.130	1.00	26.94
ATOM	12573	CB	THR	H	5	69.285	155.479	118.294	1.00	20.31
ATOM	12574	OG1	THR	H	5	70.002	154.247	118.436	1.00	19.11
ATOM	12575	CG2	THR	H	5	70.167	156.655	118.633	1.00	12.81
ATOM	12576	N	ALA	H	6	68.540	156.032	121.471	1.00	29.67
ATOM	12577	CA	ALA	H	6	68.661	156.934	122.601	1.00	29.67
ATOM	12578	C	ALA	H	6	69.378	158.192	122.169	1.00	30.72
ATOM	12579	O	ALA	H	6	69.040	159.268	122.620	1.00	32.04
ATOM	12580	CB	ALA	H	6	69.415	156.268	123.710	1.00	35.72
ATOM	12581	N	ASN	H	7	70.372	158.056	121.297	1.00	35.19
ATOM	12582	CA	ASN	H	7	71.124	159.208	120.788	1.00	38.16
ATOM	12583	C	ASN	H	7	70.262	160.050	119.863	1.00	39.75
ATOM	12584	O	ASN	H	7	70.701	161.090	119.375	1.00	39.06

ATOM	12585	CB	ASN	H	7	72.338	158.758	119.991	1.00	42.47
ATOM	12586	CG	ASN	H	7	73.465	158.292	120.858	1.00	48.75
ATOM	12587	OD1	ASN	H	7	74.067	159.086	121.584	1.00	54.27
ATOM	12588	ND2	ASN	H	7	73.772	156.994	120.790	1.00	52.51
ATOM	12589	N	GLY	H	8	69.048	159.577	119.594	1.00	41.03
ATOM	12590	CA	GLY	H	8	68.146	160.309	118.723	1.00	42.55
ATOM	12591	C	GLY	H	8	67.968	159.758	117.309	1.00	42.29
ATOM	12592	O	GLY	H	8	66.968	160.073	116.659	1.00	44.43
ATOM	12593	N	THR	H	9	68.911	158.943	116.828	1.00	39.22
ATOM	12594	CA	THR	H	9	68.830	158.374	115.475	1.00	34.02
ATOM	12595	C	THR	H	9	67.661	157.436	115.262	1.00	33.32
ATOM	12596	O	THR	H	9	67.433	156.524	116.066	1.00	33.08
ATOM	12597	CB	THR	H	9	70.092	157.627	115.131	1.00	31.94
ATOM	12598	OG1	THR	H	9	71.150	158.573	114.951	1.00	37.59
ATOM	12599	CG2	THR	H	9	69.908	156.836	113.875	1.00	25.35
ATOM	12600	N	ALA	H	10	66.942	157.634	114.157	1.00	29.95
ATOM	12601	CA	ALA	H	10	65.768	156.813	113.884	1.00	27.80
ATOM	12602	C	ALA	H	10	65.776	155.996	112.620	1.00	25.56
ATOM	12603	O	ALA	H	10	66.534	156.254	111.702	1.00	25.76
ATOM	12604	CB	ALA	H	10	64.531	157.681	113.897	1.00	26.33
ATOM	12605	N	ILE	H	11	64.914	154.989	112.604	1.00	25.52
ATOM	12606	CA	ILE	H	11	64.734	154.116	111.455	1.00	26.92
ATOM	12607	C	ILE	H	11	63.232	154.173	111.264	1.00	26.00
ATOM	12608	O	ILE	H	11	62.477	153.690	112.104	1.00	30.81
ATOM	12609	CB	ILE	H	11	65.138	152.663	111.749	1.00	28.14
ATOM	12610	CG1	ILE	H	11	66.612	152.597	112.138	1.00	29.63
ATOM	12611	CG2	ILE	H	11	64.880	151.805	110.522	1.00	26.32
ATOM	12612	CD1	ILE	H	11	67.109	151.187	112.403	1.00	33.58
ATOM	12613	N	PRO	H	12	62.778	154.773	110.167	1.00	22.70
ATOM	12614	CA	PRO	H	12	61.354	154.921	109.844	1.00	21.49
ATOM	12615	C	PRO	H	12	60.641	153.627	109.501	1.00	22.15
ATOM	12616	O	PRO	H	12	61.281	152.586	109.475	1.00	24.73
ATOM	12617	CB	PRO	H	12	61.382	155.895	108.682	1.00	21.54
ATOM	12618	CG	PRO	H	12	62.674	155.551	108.001	1.00	22.05
ATOM	12619	CD	PRO	H	12	63.631	155.378	109.132	1.00	20.44
ATOM	12620	N	ILE	H	13	59.326	153.693	109.255	1.00	21.02
ATOM	12621	CA	ILE	H	13	58.554	152.500	108.885	1.00	24.38
ATOM	12622	C	ILE	H	13	59.222	151.887	107.679	1.00	24.74
ATOM	12623	O	ILE	H	13	59.811	152.594	106.869	1.00	28.02
ATOM	12624	CB	ILE	H	13	57.099	152.806	108.462	1.00	28.21
ATOM	12625	CG1	ILE	H	13	57.074	154.089	107.649	1.00	29.58
ATOM	12626	CG2	ILE	H	13	56.153	152.819	109.671	1.00	27.36
ATOM	12627	CD1	ILE	H	13	55.680	154.635	107.456	1.00	32.18
ATOM	12628	N	GLY	H	14	59.115	150.575	107.547	1.00	24.96
ATOM	12629	CA	GLY	H	14	59.773	149.904	106.438	1.00	27.80
ATOM	12630	C	GLY	H	14	61.111	149.339	106.901	1.00	25.70
ATOM	12631	O	GLY	H	14	61.636	148.385	106.329	1.00	24.75
ATOM	12632	N	GLY	H	15	61.654	149.943	107.954	1.00	24.54
ATOM	12633	CA	GLY	H	15	62.912	149.500	108.511	1.00	22.60
ATOM	12634	C	GLY	H	15	64.134	150.148	107.899	1.00	23.54
ATOM	12635	O	GLY	H	15	64.056	151.082	107.110	1.00	26.95
ATOM	12636	N	GLY	H	16	65.287	149.624	108.271	1.00	20.31
ATOM	12637	CA	GLY	H	16	66.524	150.158	107.775	1.00	14.73
ATOM	12638	C	GLY	H	16	67.508	149.820	108.855	1.00	13.52
ATOM	12639	O	GLY	H	16	67.348	148.807	109.512	1.00	16.00
ATOM	12640	N	SER	H	17	68.507	150.660	109.067	1.00	12.14
ATOM	12641	CA	SER	H	17	69.459	150.364	110.094	1.00	11.48
ATOM	12642	C	SER	H	17	70.013	151.582	110.802	1.00	10.37
ATOM	12643	O	SER	H	17	69.773	152.717	110.408	1.00	9.20
ATOM	12644	CB	SER	H	17	70.568	149.537	109.494	1.00	12.74
ATOM	12645	OG	SER	H	17	71.245	150.288	108.512	1.00	29.21
ATOM	12646	N	ALA	H	18	70.738	151.336	111.885	1.00	13.95

ATOM	12647	CA	ALA	H	18	71.340	152.419	112.666	1.00	16.62
ATOM	12648	C	ALA	H	18	72.407	151.876	113.587	1.00	17.09
ATOM	12649	O	ALA	H	18	72.409	150.686	113.940	1.00	17.13
ATOM	12650	CB	ALA	H	18	70.269	153.150	113.511	1.00	7.98
ATOM	12651	N	ASN	H	19	73.301	152.773	113.979	1.00	17.33
ATOM	12652	CA	ASN	H	19	74.361	152.439	114.903	1.00	16.99
ATOM	12653	C	ASN	H	19	73.903	152.760	116.301	1.00	18.23
ATOM	12654	O	ASN	H	19	73.292	153.795	116.564	1.00	18.53
ATOM	12655	CB	ASN	H	19	75.625	153.243	114.621	1.00	14.38
ATOM	12656	CG	ASN	H	19	76.390	152.732	113.411	1.00	18.83
ATOM	12657	OD1	ASN	H	19	75.992	151.742	112.764	1.00	21.69
ATOM	12658	ND2	ASN	H	19	77.497	153.406	113.093	1.00	7.87
ATOM	12659	N	VAL	H	20	74.225	151.852	117.199	1.00	20.17
ATOM	12660	CA	VAL	H	20	73.913	151.981	118.599	1.00	20.05
ATOM	12661	C	VAL	H	20	75.257	151.886	119.296	1.00	20.63
ATOM	12662	O	VAL	H	20	75.847	150.805	119.371	1.00	21.84
ATOM	12663	CB	VAL	H	20	73.022	150.825	119.015	1.00	23.39
ATOM	12664	CG1	VAL	H	20	72.762	150.853	120.510	1.00	23.21
ATOM	12665	CG2	VAL	H	20	71.738	150.900	118.205	1.00	30.94
ATOM	12666	N	TYR	H	21	75.764	153.013	119.779	1.00	20.68
ATOM	12667	CA	TYR	H	21	77.058	153.016	120.471	1.00	18.96
ATOM	12668	C	TYR	H	21	76.893	152.742	121.979	1.00	20.23
ATOM	12669	O	TYR	H	21	75.961	153.248	122.621	1.00	17.85
ATOM	12670	CB	TYR	H	21	77.756	154.351	120.243	1.00	15.59
ATOM	12671	CG	TYR	H	21	77.775	154.765	118.782	1.00	14.89
ATOM	12672	CD1	TYR	H	21	76.723	155.478	118.223	1.00	10.48
ATOM	12673	CD2	TYR	H	21	78.826	154.391	117.948	1.00	15.98
ATOM	12674	CE1	TYR	H	21	76.711	155.796	116.880	1.00	11.58
ATOM	12675	CE2	TYR	H	21	78.827	154.705	116.604	1.00	14.59
ATOM	12676	CZ	TYR	H	21	77.766	155.402	116.069	1.00	17.27
ATOM	12677	OH	TYR	H	21	77.750	155.662	114.711	1.00	18.46
ATOM	12678	N	VAL	H	22	77.791	151.930	122.537	1.00	19.19
ATOM	12679	CA	VAL	H	22	77.728	151.582	123.959	1.00	15.91
ATOM	12680	C	VAL	H	22	79.032	151.708	124.718	1.00	16.27
ATOM	12681	O	VAL	H	22	80.111	151.468	124.182	1.00	16.40
ATOM	12682	CB	VAL	H	22	77.265	150.153	124.158	1.00	10.94
ATOM	12683	CG1	VAL	H	22	75.915	149.959	123.557	1.00	13.54
ATOM	12684	CG2	VAL	H	22	78.237	149.222	123.524	1.00	13.77
ATOM	12685	N	ASN	H	23	78.912	152.088	125.983	1.00	18.98
ATOM	12686	CA	ASN	H	23	80.052	152.203	126.872	1.00	20.06
ATOM	12687	C	ASN	H	23	79.918	150.961	127.762	1.00	21.85
ATOM	12688	O	ASN	H	23	79.033	150.886	128.612	1.00	23.26
ATOM	12689	CB	ASN	H	23	79.932	153.465	127.712	1.00	21.41
ATOM	12690	CG	ASN	H	23	79.620	154.689	126.888	1.00	23.19
ATOM	12691	OD1	ASN	H	23	80.423	155.141	126.078	1.00	26.24
ATOM	12692	ND2	ASN	H	23	78.440	155.241	127.100	1.00	26.96
ATOM	12693	N	LEU	H	24	80.777	149.973	127.547	1.00	23.38
ATOM	12694	CA	LEU	H	24	80.729	148.727	128.313	1.00	23.28
ATOM	12695	C	LEU	H	24	81.629	148.824	129.526	1.00	25.81
ATOM	12696	O	LEU	H	24	82.535	149.671	129.578	1.00	27.37
ATOM	12697	CB	LEU	H	24	81.185	147.556	127.438	1.00	18.00
ATOM	12698	CG	LEU	H	24	80.495	147.473	126.070	1.00	15.81
ATOM	12699	CD1	LEU	H	24	81.477	146.933	125.041	1.00	15.74
ATOM	12700	CD2	LEU	H	24	79.236	146.619	126.146	1.00	8.74
ATOM	12701	N	ALA	H	25	81.374	147.960	130.507	1.00	25.83
ATOM	12702	CA	ALA	H	25	82.173	147.939	131.731	1.00	20.69
ATOM	12703	C	ALA	H	25	83.624	147.746	131.327	1.00	20.99
ATOM	12704	O	ALA	H	25	83.983	146.776	130.647	1.00	20.56
ATOM	12705	CB	ALA	H	25	81.720	146.823	132.632	1.00	19.41
ATOM	12706	N	PRO	H	26	84.483	148.670	131.754	1.00	19.80
ATOM	12707	CA	PRO	H	26	85.920	148.663	131.455	1.00	22.44
ATOM	12708	C	PRO	H	26	86.659	147.353	131.740	1.00	22.12

ATOM	12709	O	PRO	H	26	87.545	146.961	130.994	1.00	21.73
ATOM	12710	CB	PRO	H	26	86.463	149.807	132.320	1.00	19.82
ATOM	12711	CG	PRO	H	26	85.278	150.622	132.625	1.00	19.88
ATOM	12712	CD	PRO	H	26	84.194	149.617	132.831	1.00	14.11
ATOM	12713	N	VAL	H	27	86.291	146.704	132.838	1.00	22.79
ATOM	12714	CA	VAL	H	27	86.936	145.487	133.266	1.00	22.32
ATOM	12715	C	VAL	H	27	85.938	144.391	133.586	1.00	23.15
ATOM	12716	O	VAL	H	27	84.934	144.619	134.242	1.00	23.18
ATOM	12717	CB	VAL	H	27	87.777	145.767	134.521	1.00	23.45
ATOM	12718	CG1	VAL	H	27	88.519	144.508	134.956	1.00	25.84
ATOM	12719	CG2	VAL	H	27	88.740	146.896	134.253	1.00	19.81
ATOM	12720	N	VAL	H	28	86.240	143.192	133.123	1.00	24.85
ATOM	12721	CA	VAL	H	28	85.397	142.036	133.348	1.00	27.80
ATOM	12722	C	VAL	H	28	86.337	140.844	133.517	1.00	32.79
ATOM	12723	O	VAL	H	28	87.218	140.599	132.684	1.00	32.62
ATOM	12724	CB	VAL	H	28	84.458	141.823	132.151	1.00	25.94
ATOM	12725	CG1	VAL	H	28	83.647	140.558	132.312	1.00	26.45
ATOM	12726	CG2	VAL	H	28	83.534	142.993	132.050	1.00	27.37
ATOM	12727	N	ASN	H	29	86.159	140.119	134.615	1.00	35.56
ATOM	12728	CA	ASN	H	29	87.004	138.972	134.917	1.00	36.84
ATOM	12729	C	ASN	H	29	86.395	137.709	134.338	1.00	34.75
ATOM	12730	O	ASN	H	29	85.207	137.676	134.061	1.00	34.91
ATOM	12731	CB	ASN	H	29	87.176	138.849	136.441	1.00	39.25
ATOM	12732	CG	ASN	H	29	87.988	140.008	137.036	1.00	44.89
ATOM	12733	OD1	ASN	H	29	89.194	140.136	136.788	1.00	45.28
ATOM	12734	ND2	ASN	H	29	87.324	140.859	137.819	1.00	45.35
ATOM	12735	N	VAL	H	30	87.210	136.679	134.140	1.00	31.57
ATOM	12736	CA	VAL	H	30	86.702	135.432	133.600	1.00	33.20
ATOM	12737	C	VAL	H	30	85.592	134.931	134.519	1.00	34.84
ATOM	12738	O	VAL	H	30	85.631	135.167	135.710	1.00	36.48
ATOM	12739	CB	VAL	H	30	87.819	134.376	133.509	1.00	32.67
ATOM	12740	CG1	VAL	H	30	87.307	133.109	132.822	1.00	31.91
ATOM	12741	CG2	VAL	H	30	88.994	134.946	132.744	1.00	32.28
ATOM	12742	N	GLY	H	31	84.588	134.262	133.968	1.00	38.44
ATOM	12743	CA	GLY	H	31	83.508	133.767	134.803	1.00	39.10
ATOM	12744	C	GLY	H	31	82.518	134.853	135.170	1.00	40.66
ATOM	12745	O	GLY	H	31	81.373	134.556	135.508	1.00	41.75
ATOM	12746	N	GLN	H	32	82.959	136.107	135.102	1.00	41.08
ATOM	12747	CA	GLN	H	32	82.118	137.263	135.412	1.00	41.93
ATOM	12748	C	GLN	H	32	81.276	137.617	134.179	1.00	43.24
ATOM	12749	O	GLN	H	32	81.409	136.996	133.116	1.00	43.43
ATOM	12750	CB	GLN	H	32	83.002	138.442	135.798	1.00	43.02
ATOM	12751	CG	GLN	H	32	82.322	139.540	136.571	1.00	48.19
ATOM	12752	CD	GLN	H	32	83.330	140.499	137.216	1.00	54.09
ATOM	12753	OE1	GLN	H	32	83.992	141.288	136.530	1.00	50.32
ATOM	12754	NE2	GLN	H	32	83.463	140.415	138.543	1.00	55.01
ATOM	12755	N	ASN	H	33	80.422	138.625	134.300	1.00	43.27
ATOM	12756	CA	ASN	H	33	79.564	138.979	133.172	1.00	42.37
ATOM	12757	C	ASN	H	33	79.634	140.380	132.605	1.00	43.37
ATOM	12758	O	ASN	H	33	79.831	141.378	133.310	1.00	44.99
ATOM	12759	CB	ASN	H	33	78.101	138.694	133.502	1.00	36.86
ATOM	12760	CG	ASN	H	33	77.617	137.412	132.899	1.00	38.78
ATOM	12761	OD1	ASN	H	33	76.496	136.981	133.152	1.00	39.59
ATOM	12762	ND2	ASN	H	33	78.459	136.787	132.089	1.00	40.45
ATOM	12763	N	LEU	H	34	79.467	140.428	131.294	1.00	42.47
ATOM	12764	CA	LEU	H	34	79.439	141.675	130.572	1.00	39.91
ATOM	12765	C	LEU	H	34	77.987	141.731	130.106	1.00	40.08
ATOM	12766	O	LEU	H	34	77.485	140.806	129.447	1.00	39.14
ATOM	12767	CB	LEU	H	34	80.388	141.645	129.376	1.00	36.13
ATOM	12768	CG	LEU	H	34	80.591	143.018	128.742	1.00	36.12
ATOM	12769	CD1	LEU	H	34	81.143	143.998	129.772	1.00	29.32
ATOM	12770	CD2	LEU	H	34	81.537	142.893	127.567	1.00	36.25

ATOM	12771	N	VAL	H	35	77.307	142.800	130.494	1.00	36.09
ATOM	12772	CA	VAL	H	35	75.926	142.970	130.131	1.00	33.21
ATOM	12773	C	VAL	H	35	75.784	144.233	129.315	1.00	31.56
ATOM	12774	O	VAL	H	35	76.280	145.289	129.705	1.00	32.33
ATOM	12775	CB	VAL	H	35	75.039	143.066	131.385	1.00	33.79
ATOM	12776	CG1	VAL	H	35	73.571	143.042	130.981	1.00	35.69
ATOM	12777	CG2	VAL	H	35	75.345	141.913	132.319	1.00	28.19
ATOM	12778	N	VAL	H	36	75.128	144.113	128.164	1.00	28.60
ATOM	12779	CA	VAL	H	36	74.909	145.261	127.300	1.00	25.57
ATOM	12780	C	VAL	H	36	73.418	145.368	127.253	1.00	26.41
ATOM	12781	O	VAL	H	36	72.767	144.660	126.493	1.00	24.98
ATOM	12782	CB	VAL	H	36	75.416	145.037	125.868	1.00	22.69
ATOM	12783	CG1	VAL	H	36	75.832	146.361	125.274	1.00	24.68
ATOM	12784	CG2	VAL	H	36	76.573	144.063	125.847	1.00	21.53
ATOM	12785	N	ASP	H	37	72.867	146.234	128.088	1.00	28.73
ATOM	12786	CA	ASP	H	37	71.428	146.381	128.134	1.00	32.27
ATOM	12787	C	ASP	H	37	70.984	147.382	127.097	1.00	33.95
ATOM	12788	O	ASP	H	37	71.120	148.592	127.289	1.00	35.56
ATOM	12789	CB	ASP	H	37	70.992	146.836	129.518	1.00	35.84
ATOM	12790	CG	ASP	H	37	69.534	146.576	129.769	1.00	41.51
ATOM	12791	OD1	ASP	H	37	68.957	145.751	129.009	1.00	43.19
ATOM	12792	OD2	ASP	H	37	68.981	147.182	130.724	1.00	42.62
ATOM	12793	N	LEU	H	38	70.443	146.870	125.998	1.00	33.98
ATOM	12794	CA	LEU	H	38	69.993	147.717	124.898	1.00	35.62
ATOM	12795	C	LEU	H	38	68.620	148.352	125.104	1.00	36.67
ATOM	12796	O	LEU	H	38	68.254	149.323	124.410	1.00	34.16
ATOM	12797	CB	LEU	H	38	70.026	146.914	123.603	1.00	34.90
ATOM	12798	CG	LEU	H	38	71.472	146.673	123.195	1.00	31.52
ATOM	12799	CD1	LEU	H	38	71.569	145.465	122.316	1.00	33.84
ATOM	12800	CD2	LEU	H	38	71.994	147.911	122.511	1.00	29.31
ATOM	12801	N	SER	H	39	67.880	147.797	126.067	1.00	35.97
ATOM	12802	CA	SER	H	39	66.557	148.275	126.439	1.00	31.42
ATOM	12803	C	SER	H	39	66.715	149.683	126.995	1.00	32.61
ATOM	12804	O	SER	H	39	65.772	150.259	127.536	1.00	34.56
ATOM	12805	CB	SER	H	39	65.976	147.382	127.515	1.00	27.82
ATOM	12806	OG	SER	H	39	66.740	147.497	128.692	1.00	24.76
ATOM	12807	N	THR	H	40	67.923	150.225	126.859	1.00	31.23
ATOM	12808	CA	THR	H	40	68.234	151.563	127.329	1.00	30.11
ATOM	12809	C	THR	H	40	68.546	152.467	126.163	1.00	31.61
ATOM	12810	O	THR	H	40	68.568	153.696	126.301	1.00	32.55
ATOM	12811	CB	THR	H	40	69.459	151.574	128.205	1.00	24.79
ATOM	12812	OG1	THR	H	40	69.359	150.532	129.166	1.00	30.45
ATOM	12813	CG2	THR	H	40	69.552	152.869	128.916	1.00	25.82
ATOM	12814	N	GLN	H	41	68.787	151.865	125.007	1.00	32.32
ATOM	12815	CA	GLN	H	41	69.135	152.661	123.847	1.00	32.11
ATOM	12816	C	GLN	H	41	68.340	152.421	122.577	1.00	32.48
ATOM	12817	O	GLN	H	41	68.617	153.043	121.548	1.00	32.97
ATOM	12818	CB	GLN	H	41	70.608	152.478	123.576	1.00	31.70
ATOM	12819	CG	GLN	H	41	71.406	152.787	124.782	1.00	31.84
ATOM	12820	CD	GLN	H	41	72.721	153.355	124.410	1.00	38.09
ATOM	12821	OE1	GLN	H	41	73.574	152.653	123.869	1.00	45.45
ATOM	12822	NE2	GLN	H	41	72.906	154.645	124.668	1.00	39.05
ATOM	12823	N	ILE	H	42	67.362	151.524	122.636	1.00	29.54
ATOM	12824	CA	ILE	H	42	66.551	151.264	121.467	1.00	26.92
ATOM	12825	C	ILE	H	42	65.078	151.288	121.813	1.00	29.78
ATOM	12826	O	ILE	H	42	64.588	150.432	122.555	1.00	29.58
ATOM	12827	CB	ILE	H	42	66.878	149.909	120.854	1.00	23.03
ATOM	12828	CG1	ILE	H	42	68.338	149.863	120.458	1.00	21.21
ATOM	12829	CG2	ILE	H	42	66.025	149.668	119.639	1.00	23.30
ATOM	12830	CD1	ILE	H	42	68.722	148.556	119.869	1.00	24.31
ATOM	12831	N	PHE	H	43	64.369	152.272	121.271	1.00	31.20
ATOM	12832	CA	PHE	H	43	62.945	152.372	121.515	1.00	33.25

ATOM	12833	C	PHE	H	43	62.117	152.288	120.247	1.00	33.88
ATOM	12834	O	PHE	H	43	62.515	152.762	119.189	1.00	35.46
ATOM	12835	CB	PHE	H	43	62.655	153.664	122.263	1.00	35.55
ATOM	12836	CG	PHE	H	43	63.398	153.764	123.543	1.00	38.54
ATOM	12837	CD1	PHE	H	43	64.716	154.201	123.555	1.00	38.07
ATOM	12838	CD2	PHE	H	43	62.831	153.287	124.724	1.00	39.24
ATOM	12839	CE1	PHE	H	43	65.468	154.154	124.729	1.00	43.21
ATOM	12840	CE2	PHE	H	43	63.572	153.233	125.902	1.00	42.21
ATOM	12841	CZ	PHE	H	43	64.894	153.663	125.908	1.00	39.94
ATOM	12842	N	CYS	H	44	60.960	151.663	120.360	1.00	35.50
ATOM	12843	CA	CYS	H	44	60.052	151.529	119.231	1.00	37.53
ATOM	12844	C	CYS	H	44	58.649	151.884	119.701	1.00	38.04
ATOM	12845	O	CYS	H	44	58.360	151.850	120.905	1.00	37.83
ATOM	12846	CB	CYS	H	44	60.047	150.095	118.710	1.00	38.10
ATOM	12847	SG	CYS	H	44	61.647	149.449	118.141	1.00	37.05
ATOM	12848	N	HIS	H	45	57.779	152.226	118.756	1.00	36.52
ATOM	12849	CA	HIS	H	45	56.405	152.576	119.097	1.00	35.39
ATOM	12850	C	HIS	H	45	55.497	152.099	117.998	1.00	33.72
ATOM	12851	O	HIS	H	45	55.935	151.907	116.866	1.00	34.28
ATOM	12852	CB	HIS	H	45	56.224	154.088	119.250	1.00	31.54
ATOM	12853	CG	HIS	H	45	56.358	154.836	117.965	1.00	33.35
ATOM	12854	ND1	HIS	H	45	57.489	155.551	117.637	1.00	39.06
ATOM	12855	CD2	HIS	H	45	55.541	154.911	116.890	1.00	33.17
ATOM	12856	CE1	HIS	H	45	57.366	156.030	116.412	1.00	36.22
ATOM	12857	NE2	HIS	H	45	56.194	155.654	115.936	1.00	33.26
ATOM	12858	N	ASN	H	46	54.231	151.917	118.347	1.00	32.50
ATOM	12859	CA	ASN	H	46	53.204	151.488	117.415	1.00	31.35
ATOM	12860	C	ASN	H	46	52.596	152.768	116.828	1.00	30.88
ATOM	12861	O	ASN	H	46	52.341	153.712	117.555	1.00	30.54
ATOM	12862	CB	ASN	H	46	52.168	150.693	118.188	1.00	29.94
ATOM	12863	CG	ASN	H	46	51.161	150.058	117.301	1.00	30.12
ATOM	12864	OD1	ASN	H	46	50.571	150.714	116.463	1.00	30.36
ATOM	12865	ND2	ASN	H	46	50.953	148.766	117.476	1.00	36.63
ATOM	12866	N	ASP	H	47	52.365	152.809	115.521	1.00	34.43
ATOM	12867	CA	ASP	H	47	51.824	154.017	114.868	1.00	39.65
ATOM	12868	C	ASP	H	47	50.299	154.224	114.854	1.00	41.70
ATOM	12869	O	ASP	H	47	49.808	155.342	115.007	1.00	42.36
ATOM	12870	CB	ASP	H	47	52.341	154.113	113.426	1.00	38.69
ATOM	12871	CG	ASP	H	47	53.742	154.693	113.343	1.00	41.44
ATOM	12872	OD1	ASP	H	47	54.000	155.708	114.023	1.00	44.28
ATOM	12873	OD2	ASP	H	47	54.582	154.151	112.592	1.00	42.67
ATOM	12874	N	TYR	H	48	49.549	153.160	114.634	1.00	43.26
ATOM	12875	CA	TYR	H	48	48.110	153.269	114.622	1.00	46.43
ATOM	12876	C	TYR	H	48	47.623	152.216	115.599	1.00	47.53
ATOM	12877	O	TYR	H	48	46.915	151.273	115.217	1.00	46.46
ATOM	12878	CB	TYR	H	48	47.580	153.013	113.215	1.00	49.42
ATOM	12879	CG	TYR	H	48	48.181	153.927	112.162	1.00	52.87
ATOM	12880	CD1	TYR	H	48	47.790	155.266	112.058	1.00	54.94
ATOM	12881	CD2	TYR	H	48	49.144	153.453	111.268	1.00	54.64
ATOM	12882	CE1	TYR	H	48	48.348	156.111	111.084	1.00	54.80
ATOM	12883	CE2	TYR	H	48	49.707	154.285	110.294	1.00	53.52
ATOM	12884	CZ	TYR	H	48	49.308	155.610	110.209	1.00	53.92
ATOM	12885	OH	TYR	H	48	49.893	156.435	109.275	1.00	51.92
ATOM	12886	N	PRO	H	49	48.001	152.375	116.886	1.00	48.29
ATOM	12887	CA	PRO	H	49	47.656	151.478	117.994	1.00	49.16
ATOM	12888	C	PRO	H	49	46.184	151.151	118.157	1.00	51.13
ATOM	12889	O	PRO	H	49	45.847	149.992	118.344	1.00	54.48
ATOM	12890	CB	PRO	H	49	48.232	152.193	119.214	1.00	47.29
ATOM	12891	CG	PRO	H	49	48.153	153.612	118.839	1.00	46.31
ATOM	12892	CD	PRO	H	49	48.633	153.598	117.410	1.00	46.02
ATOM	12893	N	GLU	H	50	45.311	152.157	118.082	1.00	52.99
ATOM	12894	CA	GLU	H	50	43.862	151.953	118.234	1.00	52.69

ATOM	12895	C	GLU	H	50	43.240	150.855	117.373	1.00	51.02
ATOM	12896	O	GLU	H	50	42.227	150.278	117.757	1.00	50.51
ATOM	12897	CB	GLU	H	50	43.094	153.244	117.961	1.00	55.41
ATOM	12898	CG	GLU	H	50	43.365	154.362	118.932	1.00	63.20
ATOM	12899	CD	GLU	H	50	44.733	154.965	118.735	1.00	69.06
ATOM	12900	OE1	GLU	H	50	45.065	155.317	117.582	1.00	71.27
ATOM	12901	OE2	GLU	H	50	45.477	155.091	119.730	1.00	76.98
ATOM	12902	N	THR	H	51	43.826	150.568	116.216	1.00	49.33
ATOM	12903	CA	THR	H	51	43.283	149.531	115.345	1.00	49.09
ATOM	12904	C	THR	H	51	44.275	148.471	114.896	1.00	46.73
ATOM	12905	O	THR	H	51	43.880	147.424	114.382	1.00	46.82
ATOM	12906	CB	THR	H	51	42.658	150.139	114.075	1.00	52.10
ATOM	12907	OG1	THR	H	51	43.510	151.175	113.564	1.00	54.85
ATOM	12908	CG2	THR	H	51	41.283	150.693	114.381	1.00	55.05
ATOM	12909	N	ILE	H	52	45.561	148.731	115.097	1.00	44.50
ATOM	12910	CA	ILE	H	52	46.583	147.795	114.662	1.00	38.77
ATOM	12911	C	ILE	H	52	47.482	147.325	115.776	1.00	36.02
ATOM	12912	O	ILE	H	52	47.932	148.119	116.587	1.00	34.80
ATOM	12913	CB	ILE	H	52	47.453	148.441	113.572	1.00	38.33
ATOM	12914	CG1	ILE	H	52	46.542	148.975	112.466	1.00	39.49
ATOM	12915	CG2	ILE	H	52	48.461	147.441	113.034	1.00	34.47
ATOM	12916	CD1	ILE	H	52	47.270	149.425	111.250	1.00	44.21
ATOM	12917	N	THR	H	53	47.735	146.025	115.817	1.00	35.40
ATOM	12918	CA	THR	H	53	48.627	145.467	116.822	1.00	36.60
ATOM	12919	C	THR	H	53	49.975	145.091	116.207	1.00	36.28
ATOM	12920	O	THR	H	53	50.038	144.467	115.140	1.00	33.70
ATOM	12921	CB	THR	H	53	48.039	144.217	117.473	1.00	38.98
ATOM	12922	OG1	THR	H	53	46.864	144.571	118.214	1.00	38.19
ATOM	12923	CG2	THR	H	53	49.068	143.581	118.410	1.00	40.19
ATOM	12924	N	ASP	H	54	51.048	145.465	116.898	1.00	35.97
ATOM	12925	CA	ASP	H	54	52.404	145.189	116.433	1.00	37.81
ATOM	12926	C	ASP	H	54	53.158	144.066	117.156	1.00	36.07
ATOM	12927	O	ASP	H	54	53.241	144.031	118.381	1.00	36.15
ATOM	12928	CB	ASP	H	54	53.249	146.463	116.511	1.00	40.97
ATOM	12929	CG	ASP	H	54	53.224	147.261	115.226	1.00	42.55
ATOM	12930	OD1	ASP	H	54	53.258	146.631	114.150	1.00	45.11
ATOM	12931	OD2	ASP	H	54	53.197	148.511	115.289	1.00	42.64
ATOM	12932	N	TYR	H	55	53.733	143.164	116.371	1.00	35.53
ATOM	12933	CA	TYR	H	55	54.514	142.045	116.896	1.00	33.47
ATOM	12934	C	TYR	H	55	56.007	142.231	116.575	1.00	29.69
ATOM	12935	O	TYR	H	55	56.406	142.238	115.408	1.00	28.53
ATOM	12936	CB	TYR	H	55	54.019	140.733	116.291	1.00	33.58
ATOM	12937	CG	TYR	H	55	52.533	140.530	116.446	1.00	35.70
ATOM	12938	CD1	TYR	H	55	51.960	140.346	117.710	1.00	35.46
ATOM	12939	CD2	TYR	H	55	51.694	140.541	115.328	1.00	34.45
ATOM	12940	CE1	TYR	H	55	50.587	140.181	117.853	1.00	39.12
ATOM	12941	CE2	TYR	H	55	50.328	140.379	115.454	1.00	36.31
ATOM	12942	CZ	TYR	H	55	49.777	140.199	116.716	1.00	39.98
ATOM	12943	OH	TYR	H	55	48.418	140.043	116.832	1.00	40.69
ATOM	12944	N	VAL	H	56	56.814	142.366	117.623	1.00	23.26
ATOM	12945	CA	VAL	H	56	58.242	142.563	117.493	1.00	20.62
ATOM	12946	C	VAL	H	56	59.068	141.381	117.990	1.00	20.57
ATOM	12947	O	VAL	H	56	58.857	140.908	119.096	1.00	20.32
ATOM	12948	CB	VAL	H	56	58.648	143.778	118.286	1.00	19.95
ATOM	12949	CG1	VAL	H	56	60.145	143.960	118.230	1.00	21.65
ATOM	12950	CG2	VAL	H	56	57.932	144.974	117.751	1.00	19.82
ATOM	12951	N	THR	H	57	60.024	140.927	117.182	1.00	20.82
ATOM	12952	CA	THR	H	57	60.891	139.805	117.563	1.00	24.11
ATOM	12953	C	THR	H	57	62.383	140.093	117.385	1.00	24.97
ATOM	12954	O	THR	H	57	62.770	141.101	116.772	1.00	22.62
ATOM	12955	CB	THR	H	57	60.638	138.565	116.703	1.00	24.70
ATOM	12956	OG1	THR	H	57	60.998	138.856	115.352	1.00	26.04

ATOM	12957	CG2	THR	H	57	59.197	138.166	116.746	1.00	32.07
ATOM	12958	N	LEU	H	58	63.208	139.194	117.931	1.00	22.08
ATOM	12959	CA	LEU	H	58	64.646	139.271	117.758	1.00	20.50
ATOM	12960	C	LEU	H	58	64.912	138.241	116.632	1.00	22.89
ATOM	12961	O	LEU	H	58	65.133	137.055	116.874	1.00	20.32
ATOM	12962	CB	LEU	H	58	65.377	138.891	119.043	1.00	18.18
ATOM	12963	CG	LEU	H	58	66.910	138.903	118.911	1.00	21.25
ATOM	12964	CD1	LEU	H	58	67.386	140.323	118.548	1.00	18.73
ATOM	12965	CD2	LEU	H	58	67.556	138.407	120.193	1.00	13.14
ATOM	12966	N	GLN	H	59	64.855	138.724	115.395	1.00	24.83
ATOM	12967	CA	GLN	H	59	65.025	137.909	114.210	1.00	28.77
ATOM	12968	C	GLN	H	59	66.337	137.144	114.218	1.00	31.91
ATOM	12969	O	GLN	H	59	66.361	135.933	113.990	1.00	31.77
ATOM	12970	CB	GLN	H	59	64.962	138.816	112.984	1.00	36.33
ATOM	12971	CG	GLN	H	59	64.068	138.342	111.860	1.00	41.02
ATOM	12972	CD	GLN	H	59	64.669	137.212	111.084	1.00	45.83
ATOM	12973	OE1	GLN	H	59	65.165	136.243	111.659	1.00	47.22
ATOM	12974	NE2	GLN	H	59	64.626	137.317	109.763	1.00	51.29
ATOM	12975	N	ARG	H	60	67.434	137.857	114.463	1.00	32.84
ATOM	12976	CA	ARG	H	60	68.762	137.242	114.487	1.00	34.16
ATOM	12977	C	ARG	H	60	69.606	138.040	115.457	1.00	33.75
ATOM	12978	O	ARG	H	60	69.225	139.145	115.832	1.00	37.57
ATOM	12979	CB	ARG	H	60	69.396	137.295	113.096	1.00	37.02
ATOM	12980	CG	ARG	H	60	70.547	136.331	112.854	1.00	40.25
ATOM	12981	CD	ARG	H	60	71.085	136.439	111.415	1.00	47.47
ATOM	12982	NE	ARG	H	60	70.065	136.845	110.431	1.00	58.93
ATOM	12983	CZ	ARG	H	60	69.000	136.123	110.054	1.00	60.26
ATOM	12984	NH1	ARG	H	60	68.770	134.914	110.564	1.00	60.40
ATOM	12985	NH2	ARG	H	60	68.144	136.622	109.166	1.00	56.82
ATOM	12986	N	GLY	H	61	70.742	137.482	115.862	1.00	31.98
ATOM	12987	CA	GLY	H	61	71.630	138.166	116.789	1.00	31.12
ATOM	12988	C	GLY	H	61	73.016	137.644	116.499	1.00	30.27
ATOM	12989	O	GLY	H	61	73.294	136.483	116.767	1.00	30.39
ATOM	12990	N	SER	H	62	73.885	138.489	115.954	1.00	29.57
ATOM	12991	CA	SER	H	62	75.223	138.046	115.584	1.00	28.77
ATOM	12992	C	SER	H	62	76.345	138.705	116.328	1.00	25.74
ATOM	12993	O	SER	H	62	76.249	139.867	116.676	1.00	25.64
ATOM	12994	CB	SER	H	62	75.448	138.258	114.084	1.00	29.52
ATOM	12995	OG	SER	H	62	74.475	137.559	113.331	1.00	27.43
ATOM	12996	N	ALA	H	63	77.427	137.952	116.521	1.00	25.67
ATOM	12997	CA	ALA	H	63	78.623	138.438	117.226	1.00	25.19
ATOM	12998	C	ALA	H	63	79.732	138.824	116.268	1.00	23.39
ATOM	12999	O	ALA	H	63	79.882	138.240	115.190	1.00	22.47
ATOM	13000	CB	ALA	H	63	79.146	137.378	118.178	1.00	27.35
ATOM	13001	N	TYR	H	64	80.524	139.802	116.677	1.00	21.46
ATOM	13002	CA	TYR	H	64	81.610	140.281	115.854	1.00	20.35
ATOM	13003	C	TYR	H	64	82.817	140.600	116.688	1.00	21.81
ATOM	13004	O	TYR	H	64	82.694	140.870	117.884	1.00	19.88
ATOM	13005	CB	TYR	H	64	81.194	141.545	115.104	1.00	23.52
ATOM	13006	CG	TYR	H	64	80.135	141.308	114.072	1.00	24.35
ATOM	13007	CD1	TYR	H	64	78.799	141.145	114.437	1.00	30.04
ATOM	13008	CD2	TYR	H	64	80.478	141.130	112.741	1.00	21.78
ATOM	13009	CE1	TYR	H	64	77.838	140.791	113.493	1.00	27.40
ATOM	13010	CE2	TYR	H	64	79.539	140.783	111.803	1.00	20.74
ATOM	13011	CZ	TYR	H	64	78.225	140.608	112.183	1.00	25.35
ATOM	13012	OH	TYR	H	64	77.301	140.203	111.254	1.00	33.33
ATOM	13013	N	GLY	H	65	83.978	140.578	116.033	1.00	22.65
ATOM	13014	CA	GLY	H	65	85.236	140.896	116.681	1.00	21.89
ATOM	13015	C	GLY	H	65	85.427	140.243	118.026	1.00	22.76
ATOM	13016	O	GLY	H	65	85.123	139.059	118.205	1.00	23.86
ATOM	13017	N	GLY	H	66	85.933	141.021	118.976	1.00	22.78
ATOM	13018	CA	GLY	H	66	86.170	140.496	120.305	1.00	21.59

ATOM	13019	C	GLY	H	66	85.084	139.565	120.803	1.00	22.49
ATOM	13020	O	GLY	H	66	85.320	138.392	121.005	1.00	24.47
ATOM	13021	N	VAL	H	67	83.882	140.083	120.993	1.00	24.05
ATOM	13022	CA	VAL	H	67	82.787	139.282	121.500	1.00	24.63
ATOM	13023	C	VAL	H	67	82.700	137.891	120.898	1.00	26.97
ATOM	13024	O	VAL	H	67	82.301	136.929	121.567	1.00	29.06
ATOM	13025	CB	VAL	H	67	81.457	140.003	121.270	1.00	25.59
ATOM	13026	CG1	VAL	H	67	80.276	139.036	121.491	1.00	21.98
ATOM	13027	CG2	VAL	H	67	81.363	141.196	122.218	1.00	25.81
ATOM	13028	N	LEU	H	68	83.099	137.792	119.638	1.00	23.78
ATOM	13029	CA	LEU	H	68	83.028	136.551	118.896	1.00	21.39
ATOM	13030	C	LEU	H	68	84.097	135.505	119.196	1.00	24.87
ATOM	13031	O	LEU	H	68	83.941	134.307	118.907	1.00	25.14
ATOM	13032	CB	LEU	H	68	83.044	136.903	117.420	1.00	19.37
ATOM	13033	CG	LEU	H	68	82.766	135.797	116.418	1.00	15.91
ATOM	13034	CD1	LEU	H	68	81.444	135.102	116.752	1.00	18.88
ATOM	13035	CD2	LEU	H	68	82.730	136.412	115.057	1.00	11.65
ATOM	13036	N	SER	H	69	85.196	135.952	119.774	1.00	28.95
ATOM	13037	CA	SER	H	69	86.287	135.048	120.089	1.00	29.97
ATOM	13038	C	SER	H	69	86.530	134.942	121.573	1.00	29.88
ATOM	13039	O	SER	H	69	86.901	133.886	122.063	1.00	33.05
ATOM	13040	CB	SER	H	69	87.563	135.534	119.435	1.00	30.66
ATOM	13041	OG	SER	H	69	87.972	136.752	120.026	1.00	33.94
ATOM	13042	N	ASN	H	70	86.316	136.039	122.288	1.00	29.88
ATOM	13043	CA	ASN	H	70	86.555	136.060	123.714	1.00	30.69
ATOM	13044	C	ASN	H	70	85.334	135.819	124.589	1.00	31.47
ATOM	13045	O	ASN	H	70	85.441	135.811	125.814	1.00	32.70
ATOM	13046	CB	ASN	H	70	87.213	137.384	124.093	1.00	30.83
ATOM	13047	CG	ASN	H	70	88.497	137.625	123.333	1.00	30.14
ATOM	13048	OD1	ASN	H	70	89.277	136.709	123.137	1.00	38.57
ATOM	13049	ND2	ASN	H	70	88.729	138.861	122.915	1.00	30.03
ATOM	13050	N	PHE	H	71	84.171	135.610	123.988	1.00	31.20
ATOM	13051	CA	PHE	H	71	82.992	135.394	124.815	1.00	29.86
ATOM	13052	C	PHE	H	71	82.030	134.277	124.438	1.00	29.79
ATOM	13053	O	PHE	H	71	82.012	133.765	123.331	1.00	29.35
ATOM	13054	CB	PHE	H	71	82.195	136.689	124.947	1.00	28.20
ATOM	13055	CG	PHE	H	71	82.956	137.812	125.581	1.00	25.90
ATOM	13056	CD1	PHE	H	71	83.998	138.438	124.899	1.00	25.94
ATOM	13057	CD2	PHE	H	71	82.614	138.262	126.851	1.00	23.87
ATOM	13058	CE1	PHE	H	71	84.688	139.502	125.472	1.00	28.47
ATOM	13059	CE2	PHE	H	71	83.294	139.331	127.444	1.00	24.42
ATOM	13060	CZ	PHE	H	71	84.333	139.952	126.754	1.00	29.42
ATOM	13061	N	SER	H	72	81.223	133.916	125.415	1.00	31.89
ATOM	13062	CA	SER	H	72	80.227	132.884	125.282	1.00	36.18
ATOM	13063	C	SER	H	72	79.047	133.473	126.035	1.00	37.40
ATOM	13064	O	SER	H	72	79.169	133.790	127.220	1.00	40.25
ATOM	13065	CB	SER	H	72	80.719	131.611	125.969	1.00	37.15
ATOM	13066	OG	SER	H	72	79.651	130.711	126.223	1.00	46.15
ATOM	13067	N	GLY	H	73	77.911	133.640	125.369	1.00	36.08
ATOM	13068	CA	GLY	H	73	76.794	134.222	126.082	1.00	36.47
ATOM	13069	C	GLY	H	73	75.382	133.880	125.664	1.00	36.37
ATOM	13070	O	GLY	H	73	75.126	132.992	124.843	1.00	35.25
ATOM	13071	N	THR	H	74	74.453	134.608	126.269	1.00	35.41
ATOM	13072	CA	THR	H	74	73.041	134.434	125.994	1.00	34.76
ATOM	13073	C	THR	H	74	72.440	135.788	125.653	1.00	34.61
ATOM	13074	O	THR	H	74	73.034	136.843	125.936	1.00	34.03
ATOM	13075	CB	THR	H	74	72.269	133.873	127.235	1.00	33.24
ATOM	13076	OG1	THR	H	74	72.395	134.787	128.337	1.00	29.02
ATOM	13077	CG2	THR	H	74	72.798	132.512	127.633	1.00	27.11
ATOM	13078	N	VAL	H	75	71.267	135.746	125.027	1.00	33.64
ATOM	13079	CA	VAL	H	75	70.528	136.960	124.709	1.00	32.14
ATOM	13080	C	VAL	H	75	69.225	136.826	125.488	1.00	31.19

ATOM	13081	O	VAL	H	75	68.461	135.887	125.291	1.00	31.08
ATOM	13082	CB	VAL	H	75	70.256	137.117	123.179	1.00	31.69
ATOM	13083	CG1	VAL	H	75	69.409	135.957	122.639	1.00	28.56
ATOM	13084	CG2	VAL	H	75	69.593	138.458	122.926	1.00	24.05
ATOM	13085	N	LYS	H	76	69.009	137.735	126.425	1.00	32.03
ATOM	13086	CA	LYS	H	76	67.802	137.702	127.227	1.00	36.54
ATOM	13087	C	LYS	H	76	66.754	138.593	126.551	1.00	36.68
ATOM	13088	O	LYS	H	76	66.840	139.817	126.618	1.00	35.95
ATOM	13089	CB	LYS	H	76	68.106	138.206	128.638	1.00	37.53
ATOM	13090	CG	LYS	H	76	66.935	138.065	129.603	1.00	46.14
ATOM	13091	CD	LYS	H	76	67.195	138.813	130.912	1.00	51.95
ATOM	13092	CE	LYS	H	76	66.060	138.617	131.922	1.00	54.49
ATOM	13093	NZ	LYS	H	76	66.345	139.315	133.210	1.00	56.43
ATOM	13094	N	TYR	H	77	65.775	137.979	125.894	1.00	35.86
ATOM	13095	CA	TYR	H	77	64.738	138.739	125.200	1.00	38.63
ATOM	13096	C	TYR	H	77	63.389	138.707	125.890	1.00	41.86
ATOM	13097	O	TYR	H	77	62.604	137.775	125.685	1.00	41.33
ATOM	13098	CB	TYR	H	77	64.553	138.229	123.763	1.00	37.41
ATOM	13099	CG	TYR	H	77	63.593	139.054	122.920	1.00	33.99
ATOM	13100	CD1	TYR	H	77	63.737	140.441	122.813	1.00	36.34
ATOM	13101	CD2	TYR	H	77	62.572	138.448	122.196	1.00	33.41
ATOM	13102	CE1	TYR	H	77	62.890	141.198	121.999	1.00	36.13
ATOM	13103	CE2	TYR	H	77	61.715	139.196	121.377	1.00	33.21
ATOM	13104	CZ	TYR	H	77	61.881	140.569	121.282	1.00	34.45
ATOM	13105	OH	TYR	H	77	61.059	141.310	120.462	1.00	32.62
ATOM	13106	N	SER	H	78	63.121	139.729	126.698	1.00	44.83
ATOM	13107	CA	SER	H	78	61.849	139.834	127.400	1.00	46.56
ATOM	13108	C	SER	H	78	61.651	138.698	128.418	1.00	46.92
ATOM	13109	O	SER	H	78	60.757	137.857	128.289	1.00	45.25
ATOM	13110	CB	SER	H	78	60.711	139.857	126.368	1.00	47.35
ATOM	13111	OG	SER	H	78	59.474	140.215	126.950	1.00	50.56
ATOM	13112	N	GLY	H	79	62.515	138.666	129.422	1.00	47.56
ATOM	13113	CA	GLY	H	79	62.388	137.664	130.463	1.00	50.10
ATOM	13114	C	GLY	H	79	62.728	136.242	130.080	1.00	51.26
ATOM	13115	O	GLY	H	79	62.482	135.304	130.848	1.00	52.74
ATOM	13116	N	SER	H	80	63.286	136.063	128.895	1.00	50.44
ATOM	13117	CA	SER	H	80	63.676	134.732	128.472	1.00	49.45
ATOM	13118	C	SER	H	80	65.045	134.831	127.827	1.00	49.11
ATOM	13119	O	SER	H	80	65.374	135.824	127.170	1.00	48.55
ATOM	13120	CB	SER	H	80	62.652	134.182	127.499	1.00	48.66
ATOM	13121	OG	SER	H	80	61.361	134.401	128.031	1.00	52.54
ATOM	13122	N	SER	H	81	65.868	133.817	128.035	1.00	47.28
ATOM	13123	CA	SER	H	81	67.187	133.856	127.451	1.00	45.34
ATOM	13124	C	SER	H	81	67.333	132.765	126.420	1.00	42.20
ATOM	13125	O	SER	H	81	66.654	131.744	126.473	1.00	38.46
ATOM	13126	CB	SER	H	81	68.275	133.737	128.535	1.00	48.20
ATOM	13127	OG	SER	H	81	68.494	134.978	129.205	1.00	46.49
ATOM	13128	N	TYR	H	82	68.205	133.029	125.456	1.00	41.16
ATOM	13129	CA	TYR	H	82	68.499	132.097	124.384	1.00	40.25
ATOM	13130	C	TYR	H	82	69.981	132.274	124.072	1.00	38.43
ATOM	13131	O	TYR	H	82	70.617	133.231	124.521	1.00	39.80
ATOM	13132	CB	TYR	H	82	67.689	132.423	123.132	1.00	42.04
ATOM	13133	CG	TYR	H	82	66.238	132.748	123.369	1.00	44.71
ATOM	13134	CD1	TYR	H	82	65.865	133.898	124.058	1.00	43.03
ATOM	13135	CD2	TYR	H	82	65.234	131.933	122.857	1.00	46.40
ATOM	13136	CE1	TYR	H	82	64.533	134.231	124.224	1.00	46.20
ATOM	13137	CE2	TYR	H	82	63.893	132.258	123.016	1.00	46.78
ATOM	13138	CZ	TYR	H	82	63.548	133.410	123.698	1.00	47.99
ATOM	13139	OH	TYR	H	82	62.224	133.767	123.825	1.00	49.62
ATOM	13140	N	PRO	H	83	70.544	131.354	123.293	1.00	33.69
ATOM	13141	CA	PRO	H	83	71.950	131.378	122.898	1.00	33.06
ATOM	13142	C	PRO	H	83	72.327	132.617	122.082	1.00	33.47

ATOM	13143	O	PRO	H	83	71.514	133.129	121.323	1.00	36.77
ATOM	13144	CB	PRO	H	83	72.084	130.113	122.058	1.00	34.39
ATOM	13145	CG	PRO	H	83	71.015	129.216	122.602	1.00	35.64
ATOM	13146	CD	PRO	H	83	69.871	130.139	122.808	1.00	33.85
ATOM	13147	N	PHE	H	84	73.559	133.094	122.229	1.00	32.74
ATOM	13148	CA	PHE	H	84	74.032	134.238	121.456	1.00	31.32
ATOM	13149	C	PHE	H	84	75.491	134.011	121.068	1.00	32.94
ATOM	13150	O	PHE	H	84	76.351	133.898	121.939	1.00	35.92
ATOM	13151	CB	PHE	H	84	73.927	135.528	122.263	1.00	32.71
ATOM	13152	CG	PHE	H	84	74.385	136.742	121.512	1.00	33.61
ATOM	13153	CD1	PHE	H	84	73.610	137.275	120.488	1.00	38.40
ATOM	13154	CD2	PHE	H	84	75.611	137.329	121.790	1.00	33.93
ATOM	13155	CE1	PHE	H	84	74.054	138.378	119.742	1.00	38.74
ATOM	13156	CE2	PHE	H	84	76.063	138.430	121.051	1.00	36.84
ATOM	13157	CZ	PHE	H	84	75.280	138.954	120.026	1.00	36.47
ATOM	13158	N	PRO	H	85	75.802	133.957	119.755	1.00	32.79
ATOM	13159	CA	PRO	H	85	74.927	134.090	118.586	1.00	30.91
ATOM	13160	C	PRO	H	85	73.646	133.312	118.667	1.00	30.70
ATOM	13161	O	PRO	H	85	73.577	132.265	119.291	1.00	32.10
ATOM	13162	CB	PRO	H	85	75.818	133.644	117.448	1.00	24.63
ATOM	13163	CG	PRO	H	85	77.097	134.275	117.845	1.00	26.79
ATOM	13164	CD	PRO	H	85	77.206	133.892	119.314	1.00	29.30
ATOM	13165	N	THR	H	86	72.630	133.855	118.024	1.00	32.46
ATOM	13166	CA	THR	H	86	71.307	133.269	118.010	1.00	31.42
ATOM	13167	C	THR	H	86	71.192	132.168	116.973	1.00	33.89
ATOM	13168	O	THR	H	86	71.857	132.201	115.941	1.00	34.83
ATOM	13169	CB	THR	H	86	70.274	134.346	117.694	1.00	28.65
ATOM	13170	OG1	THR	H	86	70.463	134.799	116.349	1.00	22.12
ATOM	13171	CG2	THR	H	86	70.436	135.527	118.645	1.00	25.50
ATOM	13172	N	THR	H	87	70.335	131.195	117.242	1.00	36.14
ATOM	13173	CA	THR	H	87	70.144	130.110	116.302	1.00	39.85
ATOM	13174	C	THR	H	87	68.704	129.991	115.824	1.00	42.46
ATOM	13175	O	THR	H	87	68.432	129.244	114.875	1.00	43.04
ATOM	13176	CB	THR	H	87	70.584	128.785	116.905	1.00	40.87
ATOM	13177	OG1	THR	H	87	70.495	128.863	118.329	1.00	47.22
ATOM	13178	CG2	THR	H	87	72.003	128.481	116.508	1.00	41.98
ATOM	13179	N	SER	H	88	67.789	130.726	116.464	1.00	42.79
ATOM	13180	CA	SER	H	88	66.376	130.698	116.077	1.00	42.55
ATOM	13181	C	SER	H	88	65.692	132.013	116.411	1.00	43.71
ATOM	13182	O	SER	H	88	66.054	132.652	117.406	1.00	46.01
ATOM	13183	CB	SER	H	88	65.636	129.593	116.824	1.00	42.72
ATOM	13184	OG	SER	H	88	65.237	130.050	118.104	1.00	41.18
ATOM	13185	N	GLU	H	89	64.695	132.400	115.605	1.00	41.87
ATOM	13186	CA	GLU	H	89	63.946	133.638	115.850	1.00	39.10
ATOM	13187	C	GLU	H	89	63.165	133.448	117.140	1.00	38.40
ATOM	13188	O	GLU	H	89	62.658	132.365	117.410	1.00	37.50
ATOM	13189	CB	GLU	H	89	62.972	133.935	114.717	1.00	40.78
ATOM	13190	CG	GLU	H	89	62.467	135.383	114.697	1.00	40.46
ATOM	13191	CD	GLU	H	89	61.434	135.649	113.594	1.00	39.17
ATOM	13192	OE1	GLU	H	89	61.500	134.998	112.524	1.00	34.78
ATOM	13193	OE2	GLU	H	89	60.565	136.522	113.796	1.00	34.70
ATOM	13194	N	THR	H	90	63.071	134.505	117.936	1.00	37.95
ATOM	13195	CA	THR	H	90	62.397	134.421	119.219	1.00	36.76
ATOM	13196	C	THR	H	90	60.926	134.693	119.147	1.00	38.50
ATOM	13197	O	THR	H	90	60.417	135.150	118.130	1.00	39.65
ATOM	13198	CB	THR	H	90	62.966	135.412	120.221	1.00	31.19
ATOM	13199	OG1	THR	H	90	62.793	136.736	119.717	1.00	29.97
ATOM	13200	CG2	THR	H	90	64.414	135.135	120.469	1.00	32.92
ATOM	13201	N	PRO	H	91	60.217	134.406	120.246	1.00	41.14
ATOM	13202	CA	PRO	H	91	58.774	134.631	120.315	1.00	40.27
ATOM	13203	C	PRO	H	91	58.548	136.111	120.031	1.00	38.85
ATOM	13204	O	PRO	H	91	59.496	136.902	120.040	1.00	33.91

ATOM	13205	CB	PRO	H	91	58.447	134.267	121.760	1.00	41.67
ATOM	13206	CG	PRO	H	91	59.456	133.207	122.069	1.00	42.75
ATOM	13207	CD	PRO	H	91	60.711	133.774	121.485	1.00	40.87
ATOM	13208	N	ARG	H	92	57.300	136.485	119.779	1.00	39.38
ATOM	13209	CA	ARG	H	92	56.985	137.878	119.505	1.00	39.15
ATOM	13210	C	ARG	H	92	56.482	138.650	120.732	1.00	34.53
ATOM	13211	O	ARG	H	92	55.828	138.107	121.614	1.00	34.97
ATOM	13212	CB	ARG	H	92	55.977	137.970	118.342	1.00	42.42
ATOM	13213	CG	ARG	H	92	54.766	137.051	118.448	1.00	53.08
ATOM	13214	CD	ARG	H	92	53.864	137.178	117.217	1.00	61.23
ATOM	13215	NE	ARG	H	92	52.555	136.530	117.378	1.00	70.57
ATOM	13216	CZ	ARG	H	92	51.691	136.787	118.367	1.00	73.85
ATOM	13217	NH1	ARG	H	92	51.987	137.679	119.305	1.00	72.32
ATOM	13218	NH2	ARG	H	92	50.515	136.164	118.411	1.00	75.05
ATOM	13219	N	VAL	H	93	56.843	139.919	120.788	1.00	30.42
ATOM	13220	CA	VAL	H	93	56.430	140.806	121.856	1.00	29.91
ATOM	13221	C	VAL	H	93	55.476	141.774	121.185	1.00	31.85
ATOM	13222	O	VAL	H	93	55.623	142.056	120.000	1.00	34.64
ATOM	13223	CB	VAL	H	93	57.610	141.604	122.391	1.00	30.14
ATOM	13224	CG1	VAL	H	93	57.125	142.635	123.402	1.00	22.66
ATOM	13225	CG2	VAL	H	93	58.641	140.657	122.986	1.00	29.15
ATOM	13226	N	VAL	H	94	54.497	142.293	121.905	1.00	31.07
ATOM	13227	CA	VAL	H	94	53.592	143.209	121.243	1.00	32.68
ATOM	13228	C	VAL	H	94	53.809	144.654	121.607	1.00	33.56
ATOM	13229	O	VAL	H	94	54.187	144.995	122.726	1.00	36.53
ATOM	13230	CB	VAL	H	94	52.104	142.886	121.510	1.00	32.36
ATOM	13231	CG1	VAL	H	94	51.757	141.530	120.949	1.00	30.41
ATOM	13232	CG2	VAL	H	94	51.813	142.961	122.986	1.00	36.57
ATOM	13233	N	TYR	H	95	53.588	145.501	120.620	1.00	33.98
ATOM	13234	CA	TYR	H	95	53.694	146.925	120.795	1.00	34.47
ATOM	13235	C	TYR	H	95	52.310	147.425	120.396	1.00	35.51
ATOM	13236	O	TYR	H	95	51.829	147.140	119.290	1.00	34.50
ATOM	13237	CB	TYR	H	95	54.797	147.485	119.898	1.00	34.04
ATOM	13238	CG	TYR	H	95	56.185	147.255	120.458	1.00	32.34
ATOM	13239	CD1	TYR	H	95	56.767	146.002	120.428	1.00	32.67
ATOM	13240	CD2	TYR	H	95	56.897	148.296	121.061	1.00	36.98
ATOM	13241	CE1	TYR	H	95	58.021	145.779	120.984	1.00	34.72
ATOM	13242	CE2	TYR	H	95	58.154	148.090	121.623	1.00	34.63
ATOM	13243	CZ	TYR	H	95	58.712	146.826	121.581	1.00	36.58
ATOM	13244	OH	TYR	H	95	59.963	146.602	122.129	1.00	38.82
ATOM	13245	N	ASN	H	96	51.663	148.131	121.323	1.00	34.60
ATOM	13246	CA	ASN	H	96	50.316	148.655	121.113	1.00	33.89
ATOM	13247	C	ASN	H	96	50.145	150.047	121.698	1.00	32.39
ATOM	13248	O	ASN	H	96	49.269	150.274	122.530	1.00	33.41
ATOM	13249	CB	ASN	H	96	49.303	147.709	121.752	1.00	38.46
ATOM	13250	CG	ASN	H	96	49.619	147.403	123.227	1.00	41.96
ATOM	13251	OD1	ASN	H	96	49.006	146.521	123.825	1.00	48.36
ATOM	13252	ND2	ASN	H	96	50.568	148.130	123.808	1.00	43.88
ATOM	13253	N	SER	H	97	50.974	150.978	121.250	1.00	30.34
ATOM	13254	CA	SER	H	97	50.935	152.342	121.739	1.00	29.01
ATOM	13255	C	SER	H	97	51.838	153.221	120.890	1.00	30.62
ATOM	13256	O	SER	H	97	52.791	152.737	120.301	1.00	33.06
ATOM	13257	CB	SER	H	97	51.407	152.360	123.185	1.00	24.42
ATOM	13258	OG	SER	H	97	51.834	153.655	123.548	1.00	28.93
ATOM	13259	N	ARG	H	98	51.544	154.511	120.809	1.00	33.65
ATOM	13260	CA	ARG	H	98	52.392	155.396	120.026	1.00	36.42
ATOM	13261	C	ARG	H	98	53.549	155.890	120.869	1.00	37.42
ATOM	13262	O	ARG	H	98	54.460	156.527	120.353	1.00	40.33
ATOM	13263	CB	ARG	H	98	51.609	156.599	119.516	1.00	39.17
ATOM	13264	CG	ARG	H	98	50.446	156.250	118.626	1.00	46.20
ATOM	13265	CD	ARG	H	98	49.902	157.491	117.925	1.00	54.36
ATOM	13266	NE	ARG	H	98	48.919	157.129	116.907	1.00	62.73

ATOM	13267	CZ	ARG	H	98	47.721	156.618	117.172	1.00	66.09
ATOM	13268	NH1	ARG	H	98	47.349	156.416	118.430	1.00	66.93
ATOM	13269	NH2	ARG	H	98	46.905	156.293	116.176	1.00	67.25
ATOM	13270	N	THR	H	99	53.504	155.606	122.167	1.00	37.58
ATOM	13271	CA	THR	H	99	54.558	156.033	123.076	1.00	39.20
ATOM	13272	C	THR	H	99	55.749	155.102	122.929	1.00	41.66
ATOM	13273	O	THR	H	99	55.580	153.879	122.931	1.00	42.99
ATOM	13274	CB	THR	H	99	54.101	155.979	124.532	1.00	38.11
ATOM	13275	OG1	THR	H	99	52.938	156.794	124.711	1.00	37.71
ATOM	13276	CG2	THR	H	99	55.206	156.488	125.432	1.00	42.87
ATOM	13277	N	ASP	H	100	56.950	155.665	122.803	1.00	41.53
ATOM	13278	CA	ASP	H	100	58.137	154.831	122.646	1.00	40.27
ATOM	13279	C	ASP	H	100	58.375	153.986	123.889	1.00	39.37
ATOM	13280	O	ASP	H	100	58.611	154.508	124.976	1.00	39.56
ATOM	13281	CB	ASP	H	100	59.385	155.682	122.394	1.00	42.98
ATOM	13282	CG	ASP	H	100	59.339	156.426	121.076	1.00	45.64
ATOM	13283	OD1	ASP	H	100	59.174	155.772	120.021	1.00	48.86
ATOM	13284	OD2	ASP	H	100	59.485	157.669	121.096	1.00	47.18
ATOM	13285	N	LYS	H	101	58.296	152.676	123.723	1.00	39.07
ATOM	13286	CA	LYS	H	101	58.538	151.741	124.812	1.00	38.69
ATOM	13287	C	LYS	H	101	59.868	151.090	124.435	1.00	39.98
ATOM	13288	O	LYS	H	101	60.279	151.153	123.272	1.00	40.26
ATOM	13289	CB	LYS	H	101	57.413	150.705	124.870	1.00	40.72
ATOM	13290	CG	LYS	H	101	57.820	149.301	125.338	1.00	42.60
ATOM	13291	CD	LYS	H	101	56.680	148.281	125.137	1.00	41.14
ATOM	13292	CE	LYS	H	101	57.151	146.845	125.311	1.00	36.00
ATOM	13293	NZ	LYS	H	101	56.045	145.914	124.976	1.00	31.72
ATOM	13294	N	PRO	H	102	60.577	150.490	125.411	1.00	38.87
ATOM	13295	CA	PRO	H	102	61.864	149.842	125.138	1.00	34.91
ATOM	13296	C	PRO	H	102	61.794	148.547	124.323	1.00	32.31
ATOM	13297	O	PRO	H	102	60.732	147.969	124.122	1.00	32.49
ATOM	13298	CB	PRO	H	102	62.418	149.587	126.541	1.00	31.69
ATOM	13299	CG	PRO	H	102	61.874	150.690	127.310	1.00	34.65
ATOM	13300	CD	PRO	H	102	60.431	150.703	126.860	1.00	38.75
ATOM	13301	N	TRP	H	103	62.950	148.123	123.837	1.00	29.75
ATOM	13302	CA	TRP	H	103	63.081	146.878	123.106	1.00	26.35
ATOM	13303	C	TRP	H	103	63.988	146.104	124.071	1.00	27.80
ATOM	13304	O	TRP	H	103	65.208	146.292	124.100	1.00	26.85
ATOM	13305	CB	TRP	H	103	63.759	147.113	121.761	1.00	24.50
ATOM	13306	CG	TRP	H	103	63.774	145.904	120.914	1.00	20.37
ATOM	13307	CD1	TRP	H	103	62.771	145.005	120.766	1.00	20.19
ATOM	13308	CD2	TRP	H	103	64.860	145.434	120.111	1.00	19.20
ATOM	13309	NE1	TRP	H	103	63.160	143.992	119.920	1.00	18.73
ATOM	13310	CE2	TRP	H	103	64.440	144.232	119.506	1.00	16.13
ATOM	13311	CE3	TRP	H	103	66.147	145.910	119.847	1.00	17.09
ATOM	13312	CZ2	TRP	H	103	65.261	143.494	118.657	1.00	14.17
ATOM	13313	CZ3	TRP	H	103	66.962	145.171	119.001	1.00	19.84
ATOM	13314	CH2	TRP	H	103	66.513	143.975	118.418	1.00	14.83
ATOM	13315	N	PRO	H	104	63.382	145.243	124.892	1.00	26.50
ATOM	13316	CA	PRO	H	104	63.941	144.378	125.924	1.00	26.87
ATOM	13317	C	PRO	H	104	64.974	143.368	125.479	1.00	28.39
ATOM	13318	O	PRO	H	104	64.788	142.171	125.689	1.00	26.61
ATOM	13319	CB	PRO	H	104	62.723	143.683	126.451	1.00	29.64
ATOM	13320	CG	PRO	H	104	62.009	143.391	125.194	1.00	30.25
ATOM	13321	CD	PRO	H	104	62.048	144.749	124.519	1.00	30.52
ATOM	13322	N	VAL	H	105	66.056	143.844	124.873	1.00	29.60
ATOM	13323	CA	VAL	H	105	67.125	142.965	124.427	1.00	27.55
ATOM	13324	C	VAL	H	105	68.337	143.286	125.260	1.00	29.54
ATOM	13325	O	VAL	H	105	68.676	144.462	125.446	1.00	31.59
ATOM	13326	CB	VAL	H	105	67.473	143.180	122.940	1.00	24.71
ATOM	13327	CG1	VAL	H	105	68.573	142.256	122.543	1.00	21.55
ATOM	13328	CG2	VAL	H	105	66.268	142.912	122.077	1.00	23.22

ATOM	13329	N	ALA	H	106	68.970	142.244	125.790	1.00	30.47
ATOM	13330	CA	ALA	H	106	70.161	142.432	126.594	1.00	30.84
ATOM	13331	C	ALA	H	106	71.111	141.279	126.387	1.00	32.21
ATOM	13332	O	ALA	H	106	70.710	140.121	126.371	1.00	33.56
ATOM	13333	CB	ALA	H	106	69.799	142.565	128.063	1.00	30.18
ATOM	13334	N	LEU	H	107	72.379	141.626	126.208	1.00	35.07
ATOM	13335	CA	LEU	H	107	73.453	140.662	126.024	1.00	35.00
ATOM	13336	C	LEU	H	107	74.136	140.346	127.359	1.00	37.12
ATOM	13337	O	LEU	H	107	74.419	141.247	128.164	1.00	36.45
ATOM	13338	CB	LEU	H	107	74.486	141.239	125.061	1.00	32.99
ATOM	13339	CG	LEU	H	107	74.438	140.911	123.571	1.00	32.77
ATOM	13340	CD1	LEU	H	107	73.050	140.446	123.130	1.00	31.83
ATOM	13341	CD2	LEU	H	107	74.910	142.143	122.818	1.00	25.86
ATOM	13342	N	TYR	H	108	74.390	139.059	127.583	1.00	38.91
ATOM	13343	CA	TYR	H	108	75.079	138.576	128.781	1.00	37.73
ATOM	13344	C	TYR	H	108	76.320	137.874	128.289	1.00	35.98
ATOM	13345	O	TYR	H	108	76.271	136.702	127.918	1.00	35.89
ATOM	13346	CB	TYR	H	108	74.192	137.612	129.546	1.00	36.36
ATOM	13347	CG	TYR	H	108	73.088	138.351	130.228	1.00	40.17
ATOM	13348	CD1	TYR	H	108	73.374	139.269	131.228	1.00	39.58
ATOM	13349	CD2	TYR	H	108	71.766	138.180	129.848	1.00	44.73
ATOM	13350	CE1	TYR	H	108	72.387	140.001	131.831	1.00	42.78
ATOM	13351	CE2	TYR	H	108	70.758	138.911	130.451	1.00	47.97
ATOM	13352	CZ	TYR	H	108	71.077	139.828	131.446	1.00	47.48
ATOM	13353	OH	TYR	H	108	70.089	140.588	132.049	1.00	50.76
ATOM	13354	N	LEU	H	109	77.427	138.609	128.274	1.00	34.76
ATOM	13355	CA	LEU	H	109	78.689	138.083	127.768	1.00	35.27
ATOM	13356	C	LEU	H	109	79.678	137.702	128.862	1.00	35.57
ATOM	13357	O	LEU	H	109	79.863	138.443	129.819	1.00	36.28
ATOM	13358	CB	LEU	H	109	79.314	139.115	126.823	1.00	29.40
ATOM	13359	CG	LEU	H	109	78.392	139.571	125.694	1.00	22.82
ATOM	13360	CD1	LEU	H	109	79.134	140.503	124.778	1.00	27.44
ATOM	13361	CD2	LEU	H	109	77.910	138.393	124.920	1.00	15.24
ATOM	13362	N	THR	H	110	80.320	136.548	128.709	1.00	36.67
ATOM	13363	CA	THR	H	110	81.274	136.080	129.709	1.00	37.89
ATOM	13364	C	THR	H	110	82.633	135.776	129.101	1.00	38.35
ATOM	13365	O	THR	H	110	82.760	134.916	128.223	1.00	36.49
ATOM	13366	CB	THR	H	110	80.781	134.790	130.421	1.00	38.73
ATOM	13367	OG1	THR	H	110	79.372	134.883	130.688	1.00	40.51
ATOM	13368	CG2	THR	H	110	81.530	134.600	131.732	1.00	33.29
ATOM	13369	N	PRO	H	111	83.675	136.476	129.576	1.00	38.35
ATOM	13370	CA	PRO	H	111	85.029	136.271	129.073	1.00	37.60
ATOM	13371	C	PRO	H	111	85.424	134.836	129.324	1.00	40.91
ATOM	13372	O	PRO	H	111	85.090	134.262	130.367	1.00	41.46
ATOM	13373	CB	PRO	H	111	85.858	137.236	129.905	1.00	34.96
ATOM	13374	CG	PRO	H	111	84.902	138.319	130.223	1.00	38.19
ATOM	13375	CD	PRO	H	111	83.655	137.550	130.580	1.00	37.18
ATOM	13376	N	VAL	H	112	86.126	134.247	128.369	1.00	43.57
ATOM	13377	CA	VAL	H	112	86.565	132.876	128.533	1.00	44.61
ATOM	13378	C	VAL	H	112	87.930	132.812	129.175	1.00	44.23
ATOM	13379	O	VAL	H	112	88.646	133.811	129.297	1.00	41.64
ATOM	13380	CB	VAL	H	112	86.667	132.129	127.198	1.00	46.33
ATOM	13381	CG1	VAL	H	112	85.288	131.870	126.640	1.00	45.09
ATOM	13382	CG2	VAL	H	112	87.512	132.936	126.225	1.00	49.23
ATOM	13383	N	SER	H	113	88.260	131.596	129.585	1.00	45.15
ATOM	13384	CA	SER	H	113	89.531	131.261	130.195	1.00	43.11
ATOM	13385	C	SER	H	113	90.641	131.912	129.360	1.00	42.05
ATOM	13386	O	SER	H	113	91.499	132.635	129.875	1.00	37.70
ATOM	13387	CB	SER	H	113	89.656	129.739	130.177	1.00	41.73
ATOM	13388	OG	SER	H	113	90.740	129.280	130.946	1.00	48.29
ATOM	13389	N	SER	H	114	90.575	131.675	128.052	1.00	42.71
ATOM	13390	CA	SER	H	114	91.551	132.197	127.106	1.00	44.71

ATOM	13391	C	SER H 114	91.415	133.671	126.700	1.00	45.22
ATOM	13392	O	SER H 114	92.273	134.193	125.989	1.00	46.47
ATOM	13393	CB	SER H 114	91.557	131.323	125.845	1.00	44.28
ATOM	13394	OG	SER H 114	90.292	131.283	125.219	1.00	43.79
ATOM	13395	N	ALA H 115	90.354	134.344	127.130	1.00	45.93
ATOM	13396	CA	ALA H 115	90.187	135.750	126.769	1.00	45.64
ATOM	13397	C	ALA H 115	91.502	136.515	126.974	1.00	45.67
ATOM	13398	O	ALA H 115	92.142	136.397	128.033	1.00	43.49
ATOM	13399	CB	ALA H 115	89.078	136.380	127.604	1.00	46.23
ATOM	13400	N	GLY H 116	91.896	137.292	125.958	1.00	43.52
ATOM	13401	CA	GLY H 116	93.127	138.073	126.027	1.00	40.76
ATOM	13402	C	GLY H 116	93.219	139.120	127.132	1.00	37.93
ATOM	13403	O	GLY H 116	92.941	138.855	128.308	1.00	37.99
ATOM	13404	N	GLY H 117	93.650	140.313	126.746	1.00	35.70
ATOM	13405	CA	GLY H 117	93.767	141.423	127.680	1.00	34.76
ATOM	13406	C	GLY H 117	92.693	142.441	127.325	1.00	33.92
ATOM	13407	O	GLY H 117	91.961	142.929	128.188	1.00	34.34
ATOM	13408	N	VAL H 118	92.624	142.763	126.035	1.00	31.59
ATOM	13409	CA	VAL H 118	91.623	143.659	125.480	1.00	27.43
ATOM	13410	C	VAL H 118	90.689	142.718	124.737	1.00	26.17
ATOM	13411	O	VAL H 118	90.887	142.464	123.561	1.00	27.59
ATOM	13412	CB	VAL H 118	92.237	144.617	124.462	1.00	26.84
ATOM	13413	CG1	VAL H 118	91.140	145.407	123.761	1.00	26.58
ATOM	13414	CG2	VAL H 118	93.199	145.551	125.156	1.00	23.53
ATOM	13415	N	ALA H 119	89.688	142.184	125.424	1.00	26.99
ATOM	13416	CA	ALA H 119	88.758	141.237	124.798	1.00	26.49
ATOM	13417	C	ALA H 119	87.823	141.932	123.842	1.00	23.97
ATOM	13418	O	ALA H 119	87.135	141.293	123.049	1.00	20.49
ATOM	13419	CB	ALA H 119	87.940	140.494	125.861	1.00	30.72
ATOM	13420	N	ILE H 120	87.782	143.250	123.948	1.00	20.57
ATOM	13421	CA	ILE H 120	86.947	144.029	123.074	1.00	18.49
ATOM	13422	C	ILE H 120	87.661	145.323	122.783	1.00	19.72
ATOM	13423	O	ILE H 120	87.996	146.062	123.692	1.00	20.52
ATOM	13424	CB	ILE H 120	85.568	144.283	123.711	1.00	16.44
ATOM	13425	CG1	ILE H 120	84.713	143.012	123.573	1.00	13.52
ATOM	13426	CG2	ILE H 120	84.897	145.486	123.065	1.00	11.07
ATOM	13427	CD1	ILE H 120	83.243	143.209	123.853	1.00	19.11
ATOM	13428	N	LYS H 121	87.939	145.582	121.513	1.00	21.44
ATOM	13429	CA	LYS H 121	88.612	146.824	121.173	1.00	23.59
ATOM	13430	C	LYS H 121	87.607	147.956	121.081	1.00	21.87
ATOM	13431	O	LYS H 121	86.467	147.765	120.645	1.00	20.89
ATOM	13432	CB	LYS H 121	89.371	146.702	119.850	1.00	28.76
ATOM	13433	CG	LYS H 121	90.873	146.484	120.005	1.00	38.75
ATOM	13434	CD	LYS H 121	91.346	145.147	119.400	1.00	42.64
ATOM	13435	CE	LYS H 121	92.271	144.396	120.367	1.00	44.91
ATOM	13436	NZ	LYS H 121	93.346	145.277	120.940	1.00	44.39
ATOM	13437	N	ALA H 122	88.038	149.133	121.516	1.00	21.21
ATOM	13438	CA	ALA H 122	87.210	150.323	121.482	1.00	19.96
ATOM	13439	C	ALA H 122	86.882	150.722	120.023	1.00	20.57
ATOM	13440	O	ALA H 122	87.758	150.775	119.145	1.00	16.28
ATOM	13441	CB	ALA H 122	87.928	151.454	122.205	1.00	17.19
ATOM	13442	N	GLY H 123	85.604	150.986	119.766	1.00	21.67
ATOM	13443	CA	GLY H 123	85.194	151.360	118.429	1.00	23.42
ATOM	13444	C	GLY H 123	84.853	150.174	117.531	1.00	24.63
ATOM	13445	O	GLY H 123	84.395	150.375	116.397	1.00	25.98
ATOM	13446	N	SER H 124	85.039	148.950	118.024	1.00	20.89
ATOM	13447	CA	SER H 124	84.755	147.772	117.219	1.00	21.33
ATOM	13448	C	SER H 124	83.307	147.304	117.213	1.00	24.76
ATOM	13449	O	SER H 124	82.539	147.569	118.134	1.00	31.87
ATOM	13450	CB	SER H 124	85.648	146.623	117.646	1.00	18.28
ATOM	13451	OG	SER H 124	85.372	146.227	118.971	1.00	24.68
ATOM	13452	N	LEU H 125	82.928	146.602	116.157	1.00	24.79

ATOM	13453	CA	LEU	H	125	81.573	146.107	116.055	1.00	23.29
ATOM	13454	C	LEU	H	125	81.500	144.942	117.011	1.00	24.36
ATOM	13455	O	LEU	H	125	82.269	143.991	116.909	1.00	26.27
ATOM	13456	CB	LEU	H	125	81.286	145.660	114.619	1.00	21.95
ATOM	13457	CG	LEU	H	125	79.878	145.208	114.244	1.00	17.92
ATOM	13458	CD1	LEU	H	125	78.955	146.410	114.151	1.00	15.10
ATOM	13459	CD2	LEU	H	125	79.926	144.478	112.927	1.00	12.47
ATOM	13460	N	ILE	H	126	80.588	145.049	117.963	1.00	26.33
ATOM	13461	CA	ILE	H	126	80.379	144.031	118.991	1.00	28.36
ATOM	13462	C	ILE	H	126	79.304	143.050	118.574	1.00	29.60
ATOM	13463	O	ILE	H	126	79.416	141.854	118.805	1.00	31.00
ATOM	13464	CB	ILE	H	126	79.923	144.691	120.307	1.00	27.29
ATOM	13465	CG1	ILE	H	126	81.008	145.634	120.803	1.00	29.87
ATOM	13466	CG2	ILE	H	126	79.615	143.665	121.340	1.00	28.69
ATOM	13467	CD1	ILE	H	126	82.318	144.952	121.066	1.00	30.79
ATOM	13468	N	ALA	H	127	78.249	143.570	117.959	1.00	31.03
ATOM	13469	CA	ALA	H	127	77.141	142.732	117.547	1.00	28.48
ATOM	13470	C	ALA	H	127	76.190	143.434	116.586	1.00	25.22
ATOM	13471	O	ALA	H	127	76.193	144.657	116.475	1.00	25.00
ATOM	13472	CB	ALA	H	127	76.372	142.281	118.796	1.00	28.19
ATOM	13473	N	VAL	H	128	75.394	142.644	115.878	1.00	20.28
ATOM	13474	CA	VAL	H	128	74.396	143.190	114.984	1.00	19.00
ATOM	13475	C	VAL	H	128	73.124	142.428	115.301	1.00	21.38
ATOM	13476	O	VAL	H	128	73.065	141.220	115.110	1.00	23.47
ATOM	13477	CB	VAL	H	128	74.738	142.987	113.495	1.00	18.50
ATOM	13478	CG1	VAL	H	128	73.589	143.488	112.650	1.00	15.96
ATOM	13479	CG2	VAL	H	128	75.998	143.733	113.117	1.00	13.58
ATOM	13480	N	LEU	H	129	72.112	143.135	115.796	1.00	21.64
ATOM	13481	CA	LEU	H	129	70.833	142.522	116.155	1.00	20.47
ATOM	13482	C	LEU	H	129	69.700	142.936	115.219	1.00	18.83
ATOM	13483	O	LEU	H	129	69.468	144.125	115.018	1.00	20.21
ATOM	13484	CB	LEU	H	129	70.449	142.929	117.572	1.00	22.50
ATOM	13485	CG	LEU	H	129	71.469	142.682	118.669	1.00	25.88
ATOM	13486	CD1	LEU	H	129	70.943	143.265	119.956	1.00	27.55
ATOM	13487	CD2	LEU	H	129	71.724	141.203	118.814	1.00	27.96
ATOM	13488	N	ILE	H	130	68.976	141.969	114.668	1.00	16.93
ATOM	13489	CA	ILE	H	130	67.867	142.302	113.769	1.00	19.12
ATOM	13490	C	ILE	H	130	66.484	142.195	114.427	1.00	22.86
ATOM	13491	O	ILE	H	130	66.042	141.111	114.847	1.00	23.79
ATOM	13492	CB	ILE	H	130	67.857	141.424	112.490	1.00	15.61
ATOM	13493	CG1	ILE	H	130	69.174	141.565	111.730	1.00	14.56
ATOM	13494	CG2	ILE	H	130	66.755	141.879	111.578	1.00	2.49
ATOM	13495	CD1	ILE	H	130	69.317	140.589	110.590	1.00	14.08
ATOM	13496	N	LEU	H	131	65.823	143.347	114.502	1.00	23.67
ATOM	13497	CA	LEU	H	131	64.494	143.491	115.079	1.00	24.56
ATOM	13498	C	LEU	H	131	63.476	143.295	113.974	1.00	26.12
ATOM	13499	O	LEU	H	131	63.484	144.032	113.000	1.00	24.74
ATOM	13500	CB	LEU	H	131	64.336	144.896	115.671	1.00	22.22
ATOM	13501	CG	LEU	H	131	62.986	145.274	116.301	1.00	21.01
ATOM	13502	CD1	LEU	H	131	63.126	146.519	117.181	1.00	14.00
ATOM	13503	CD2	LEU	H	131	61.966	145.484	115.199	1.00	16.90
ATOM	13504	N	ARG	H	132	62.593	142.313	114.132	1.00	30.00
ATOM	13505	CA	ARG	H	132	61.575	142.035	113.118	1.00	31.40
ATOM	13506	C	ARG	H	132	60.201	142.578	113.510	1.00	31.69
ATOM	13507	O	ARG	H	132	59.797	142.496	114.673	1.00	35.61
ATOM	13508	CB	ARG	H	132	61.482	140.537	112.878	1.00	32.69
ATOM	13509	CG	ARG	H	132	60.721	140.179	111.630	1.00	36.49
ATOM	13510	CD	ARG	H	132	60.894	138.717	111.288	1.00	34.99
ATOM	13511	NE	ARG	H	132	60.514	138.476	109.905	1.00	39.90
ATOM	13512	CZ	ARG	H	132	61.022	137.502	109.165	1.00	43.10
ATOM	13513	NH1	ARG	H	132	61.928	136.690	109.691	1.00	42.40
ATOM	13514	NH2	ARG	H	132	60.631	137.343	107.904	1.00	44.87

ATOM	13515	N	ASN	H	133	59.481	143.119	112.534	1.00	28.54
ATOM	13516	CA	ASN	H	133	58.176	143.704	112.791	1.00	27.16
ATOM	13517	C	ASN	H	133	57.107	143.277	111.804	1.00	26.03
ATOM	13518	O	ASN	H	133	57.305	143.264	110.596	1.00	23.97
ATOM	13519	CB	ASN	H	133	58.300	145.241	112.825	1.00	28.13
ATOM	13520	CG	ASN	H	133	57.013	145.962	112.410	1.00	30.27
ATOM	13521	OD1	ASN	H	133	56.705	146.075	111.226	1.00	31.98
ATOM	13522	ND2	ASN	H	133	56.268	146.453	113.384	1.00	26.97
ATOM	13523	N	THR	H	134	55.962	142.917	112.351	1.00	26.25
ATOM	13524	CA	THR	H	134	54.826	142.504	111.559	1.00	27.44
ATOM	13525	C	THR	H	134	53.612	143.078	112.264	1.00	29.17
ATOM	13526	O	THR	H	134	53.754	143.755	113.276	1.00	31.15
ATOM	13527	CB	THR	H	134	54.722	140.994	111.519	1.00	26.52
ATOM	13528	OG1	THR	H	134	55.016	140.480	112.822	1.00	31.19
ATOM	13529	CG2	THR	H	134	55.688	140.419	110.511	1.00	21.63
ATOM	13530	N	ASN	H	135	52.422	142.824	111.742	1.00	30.64
ATOM	13531	CA	ASN	H	135	51.224	143.355	112.375	1.00	35.18
ATOM	13532	C	ASN	H	135	50.010	142.521	112.031	1.00	38.63
ATOM	13533	O	ASN	H	135	50.028	141.753	111.066	1.00	39.78
ATOM	13534	CB	ASN	H	135	50.981	144.782	111.924	1.00	31.89
ATOM	13535	CG	ASN	H	135	50.792	144.877	110.443	1.00	30.55
ATOM	13536	OD1	ASN	H	135	51.691	144.562	109.670	1.00	27.12
ATOM	13537	ND2	ASN	H	135	49.611	145.301	110.033	1.00	35.17
ATOM	13538	N	ASN	H	136	48.949	142.693	112.816	1.00	39.89
ATOM	13539	CA	ASN	H	136	47.726	141.944	112.601	1.00	39.95
ATOM	13540	C	ASN	H	136	46.836	142.581	111.555	1.00	41.27
ATOM	13541	O	ASN	H	136	45.745	142.086	111.301	1.00	43.33
ATOM	13542	CB	ASN	H	136	46.959	141.823	113.909	1.00	40.49
ATOM	13543	CG	ASN	H	136	46.448	143.155	114.406	1.00	42.84
ATOM	13544	OD1	ASN	H	136	46.089	143.296	115.578	1.00	43.10
ATOM	13545	ND2	ASN	H	136	46.390	144.140	113.514	1.00	40.08
ATOM	13546	N	TYR	H	137	47.289	143.679	110.952	1.00	43.12
ATOM	13547	CA	TYR	H	137	46.488	144.352	109.937	1.00	43.55
ATOM	13548	C	TYR	H	137	46.786	143.976	108.504	1.00	42.17
ATOM	13549	O	TYR	H	137	45.866	143.837	107.708	1.00	44.44
ATOM	13550	CB	TYR	H	137	46.594	145.873	110.021	1.00	45.56
ATOM	13551	CG	TYR	H	137	45.840	146.528	108.871	1.00	51.32
ATOM	13552	CD1	TYR	H	137	44.455	146.377	108.744	1.00	51.56
ATOM	13553	CD2	TYR	H	137	46.514	147.240	107.876	1.00	52.31
ATOM	13554	CE1	TYR	H	137	43.767	146.914	107.662	1.00	51.01
ATOM	13555	CE2	TYR	H	137	45.830	147.782	106.786	1.00	51.39
ATOM	13556	CZ	TYR	H	137	44.459	147.614	106.688	1.00	52.33
ATOM	13557	OH	TYR	H	137	43.775	148.142	105.616	1.00	50.68
ATOM	13558	N	ASN	H	138	48.058	143.857	108.158	1.00	40.25
ATOM	13559	CA	ASN	H	138	48.424	143.510	106.794	1.00	39.59
ATOM	13560	C	ASN	H	138	49.576	142.521	106.751	1.00	42.82
ATOM	13561	O	ASN	H	138	49.983	141.983	107.782	1.00	46.42
ATOM	13562	CB	ASN	H	138	48.788	144.768	106.009	1.00	34.74
ATOM	13563	CG	ASN	H	138	50.052	145.415	106.500	1.00	29.20
ATOM	13564	OD1	ASN	H	138	50.326	146.554	106.176	1.00	32.40
ATOM	13565	ND2	ASN	H	138	50.836	144.692	107.275	1.00	28.47
ATOM	13566	N	SER	H	139	50.115	142.300	105.559	1.00	44.25
ATOM	13567	CA	SER	H	139	51.201	141.346	105.369	1.00	44.85
ATOM	13568	C	SER	H	139	52.592	141.967	105.270	1.00	44.24
ATOM	13569	O	SER	H	139	53.482	141.427	104.610	1.00	44.83
ATOM	13570	CB	SER	H	139	50.910	140.531	104.119	1.00	45.71
ATOM	13571	OG	SER	H	139	50.356	141.376	103.124	1.00	51.94
ATOM	13572	N	ASP	H	140	52.778	143.103	105.926	1.00	42.85
ATOM	13573	CA	ASP	H	140	54.070	143.766	105.914	1.00	42.36
ATOM	13574	C	ASP	H	140	55.036	143.049	106.853	1.00	41.40
ATOM	13575	O	ASP	H	140	54.650	142.608	107.936	1.00	41.74
ATOM	13576	CB	ASP	H	140	53.929	145.221	106.367	1.00	43.04

ATOM	13577	CG	ASP	H	140	53.167	146.075	105.379	1.00	41.36
ATOM	13578	OD1	ASP	H	140	52.882	145.593	104.264	1.00	38.96
ATOM	13579	OD2	ASP	H	140	52.866	147.239	105.726	1.00	41.12
ATOM	13580	N	ASP	H	141	56.291	142.942	106.427	1.00	39.61
ATOM	13581	CA	ASP	H	141	57.337	142.306	107.214	1.00	36.67
ATOM	13582	C	ASP	H	141	58.608	143.129	107.023	1.00	35.22
ATOM	13583	O	ASP	H	141	59.293	142.989	106.008	1.00	35.34
ATOM	13584	CB	ASP	H	141	57.549	140.872	106.738	1.00	35.99
ATOM	13585	CG	ASP	H	141	58.736	140.218	107.391	1.00	42.23
ATOM	13586	OD1	ASP	H	141	59.871	140.432	106.923	1.00	55.81
ATOM	13587	OD2	ASP	H	141	58.551	139.500	108.385	1.00	41.36
ATOM	13588	N	PHE	H	142	58.913	143.983	108.003	1.00	32.28
ATOM	13589	CA	PHE	H	142	60.081	144.860	107.944	1.00	32.66
ATOM	13590	C	PHE	H	142	61.155	144.513	108.959	1.00	32.04
ATOM	13591	O	PHE	H	142	60.851	144.059	110.060	1.00	32.62
ATOM	13592	CB	PHE	H	142	59.654	146.305	108.165	1.00	35.01
ATOM	13593	CG	PHE	H	142	58.605	146.772	107.209	1.00	36.43
ATOM	13594	CD1	PHE	H	142	58.805	146.681	105.841	1.00	33.30
ATOM	13595	CD2	PHE	H	142	57.415	147.310	107.681	1.00	38.19
ATOM	13596	CE1	PHE	H	142	57.846	147.115	104.966	1.00	35.02
ATOM	13597	CE2	PHE	H	142	56.449	147.749	106.810	1.00	35.51
ATOM	13598	CZ	PHE	H	142	56.665	147.651	105.445	1.00	37.69
ATOM	13599	N	GLN	H	143	62.411	144.759	108.592	1.00	28.50
ATOM	13600	CA	GLN	H	143	63.523	144.449	109.464	1.00	23.91
ATOM	13601	C	GLN	H	143	64.317	145.666	109.859	1.00	26.30
ATOM	13602	O	GLN	H	143	64.748	146.463	109.019	1.00	28.36
ATOM	13603	CB	GLN	H	143	64.453	143.453	108.796	1.00	19.32
ATOM	13604	CG	GLN	H	143	63.808	142.140	108.473	1.00	32.49
ATOM	13605	CD	GLN	H	143	64.820	141.013	108.488	1.00	44.87
ATOM	13606	OE1	GLN	H	143	65.813	141.048	107.750	1.00	50.18
ATOM	13607	NE2	GLN	H	143	64.584	140.005	109.341	1.00	47.43
ATOM	13608	N	PHE	H	144	64.513	145.802	111.161	1.00	27.64
ATOM	13609	CA	PHE	H	144	65.275	146.901	111.717	1.00	26.16
ATOM	13610	C	PHE	H	144	66.613	146.327	112.122	1.00	25.64
ATOM	13611	O	PHE	H	144	66.698	145.475	113.003	1.00	28.18
ATOM	13612	CB	PHE	H	144	64.531	147.495	112.915	1.00	24.23
ATOM	13613	CG	PHE	H	144	63.305	148.274	112.523	1.00	27.15
ATOM	13614	CD1	PHE	H	144	62.201	147.629	111.973	1.00	25.49
ATOM	13615	CD2	PHE	H	144	63.274	149.664	112.648	1.00	29.15
ATOM	13616	CE1	PHE	H	144	61.084	148.358	111.551	1.00	27.28
ATOM	13617	CE2	PHE	H	144	62.163	150.399	112.229	1.00	27.51
ATOM	13618	CZ	PHE	H	144	61.067	149.746	111.681	1.00	27.84
ATOM	13619	N	VAL	H	145	67.662	146.785	111.460	1.00	24.06
ATOM	13620	CA	VAL	H	145	68.994	146.295	111.739	1.00	23.50
ATOM	13621	C	VAL	H	145	69.863	147.174	112.652	1.00	24.05
ATOM	13622	O	VAL	H	145	70.357	148.236	112.252	1.00	24.53
ATOM	13623	CB	VAL	H	145	69.699	146.032	110.427	1.00	22.31
ATOM	13624	CG1	VAL	H	145	71.169	145.783	110.666	1.00	29.07
ATOM	13625	CG2	VAL	H	145	69.064	144.829	109.757	1.00	21.04
ATOM	13626	N	TRP	H	146	70.056	146.707	113.886	1.00	22.63
ATOM	13627	CA	TRP	H	146	70.857	147.434	114.861	1.00	21.11
ATOM	13628	C	TRP	H	146	72.285	146.937	114.891	1.00	20.63
ATOM	13629	O	TRP	H	146	72.530	145.751	115.080	1.00	20.28
ATOM	13630	CB	TRP	H	146	70.256	147.296	116.261	1.00	18.38
ATOM	13631	CG	TRP	H	146	68.803	147.566	116.268	1.00	13.07
ATOM	13632	CD1	TRP	H	146	67.801	146.652	116.151	1.00	8.61
ATOM	13633	CD2	TRP	H	146	68.188	148.845	116.245	1.00	7.22
ATOM	13634	NE1	TRP	H	146	66.597	147.284	116.041	1.00	8.10
ATOM	13635	CE2	TRP	H	146	66.801	148.636	116.096	1.00	6.89
ATOM	13636	CE3	TRP	H	146	68.675	150.156	116.329	1.00	10.17
ATOM	13637	CZ2	TRP	H	146	65.884	149.689	116.028	1.00	3.90
ATOM	13638	CZ3	TRP	H	146	67.765	151.213	116.258	1.00	8.22

ATOM	13639	CH2	TRP	H	146	66.381	150.966	116.108	1.00	6.30
ATOM	13640	N	ASN	H	147	73.218	147.867	114.714	1.00	20.35
ATOM	13641	CA	ASN	H	147	74.640	147.570	114.745	1.00	18.88
ATOM	13642	C	ASN	H	147	75.232	148.056	116.055	1.00	18.78
ATOM	13643	O	ASN	H	147	75.302	149.249	116.283	1.00	22.71
ATOM	13644	CB	ASN	H	147	75.342	148.278	113.596	1.00	18.89
ATOM	13645	CG	ASN	H	147	74.782	147.903	112.266	1.00	10.25
ATOM	13646	OD1	ASN	H	147	74.560	146.737	111.981	1.00	6.49
ATOM	13647	ND2	ASN	H	147	74.561	148.896	111.433	1.00	18.88
ATOM	13648	N	ILE	H	148	75.673	147.139	116.904	1.00	18.28
ATOM	13649	CA	ILE	H	148	76.246	147.514	118.199	1.00	19.39
ATOM	13650	C	ILE	H	148	77.756	147.762	118.165	1.00	15.56
ATOM	13651	O	ILE	H	148	78.540	146.856	117.917	1.00	13.67
ATOM	13652	CB	ILE	H	148	75.938	146.427	119.285	1.00	24.84
ATOM	13653	CG1	ILE	H	148	74.479	146.518	119.737	1.00	24.27
ATOM	13654	CG2	ILE	H	148	76.844	146.623	120.514	1.00	31.04
ATOM	13655	CD1	ILE	H	148	73.457	146.419	118.633	1.00	26.95
ATOM	13656	N	TYR	H	149	78.152	149.001	118.415	1.00	13.04
ATOM	13657	CA	TYR	H	149	79.567	149.358	118.437	1.00	17.08
ATOM	13658	C	TYR	H	149	80.035	149.644	119.854	1.00	18.76
ATOM	13659	O	TYR	H	149	79.377	150.383	120.590	1.00	23.37
ATOM	13660	CB	TYR	H	149	79.843	150.597	117.586	1.00	10.51
ATOM	13661	CG	TYR	H	149	79.928	150.314	116.114	1.00	20.03
ATOM	13662	CD1	TYR	H	149	78.768	150.060	115.344	1.00	16.92
ATOM	13663	CD2	TYR	H	149	81.166	150.300	115.471	1.00	18.66
ATOM	13664	CE1	TYR	H	149	78.853	149.802	113.971	1.00	13.03
ATOM	13665	CE2	TYR	H	149	81.259	150.047	114.100	1.00	20.53
ATOM	13666	CZ	TYR	H	149	80.103	149.799	113.355	1.00	19.12
ATOM	13667	OH	TYR	H	149	80.218	149.556	111.999	1.00	22.26
ATOM	13668	N	ALA	H	150	81.168	149.071	120.236	1.00	16.71
ATOM	13669	CA	ALA	H	150	81.693	149.314	121.563	1.00	17.86
ATOM	13670	C	ALA	H	150	82.472	150.631	121.571	1.00	17.95
ATOM	13671	O	ALA	H	150	83.328	150.860	120.711	1.00	15.60
ATOM	13672	CB	ALA	H	150	82.583	148.174	121.972	1.00	22.81
ATOM	13673	N	ASN	H	151	82.171	151.487	122.545	1.00	15.27
ATOM	13674	CA	ASN	H	151	82.835	152.781	122.660	1.00	18.91
ATOM	13675	C	ASN	H	151	84.193	152.735	123.361	1.00	20.60
ATOM	13676	O	ASN	H	151	85.009	153.655	123.210	1.00	18.55
ATOM	13677	CB	ASN	H	151	81.954	153.778	123.418	1.00	19.30
ATOM	13678	CG	ASN	H	151	80.907	154.421	122.550	1.00	19.66
ATOM	13679	OD1	ASN	H	151	81.151	154.732	121.380	1.00	21.07
ATOM	13680	ND2	ASN	H	151	79.733	154.652	123.127	1.00	16.86
ATOM	13681	N	ASN	H	152	84.422	151.677	124.137	1.00	22.06
ATOM	13682	CA	ASN	H	152	85.664	151.529	124.884	1.00	23.67
ATOM	13683	C	ASN	H	152	86.166	150.105	124.854	1.00	25.81
ATOM	13684	O	ASN	H	152	85.461	149.199	124.421	1.00	23.78
ATOM	13685	CB	ASN	H	152	85.446	151.914	126.338	1.00	20.06
ATOM	13686	CG	ASN	H	152	84.261	151.200	126.936	1.00	26.04
ATOM	13687	OD1	ASN	H	152	83.111	151.515	126.614	1.00	27.37
ATOM	13688	ND2	ASN	H	152	84.525	150.212	127.795	1.00	24.36
ATOM	13689	N	ASP	H	153	87.389	149.924	125.344	1.00	27.91
ATOM	13690	CA	ASP	H	153	88.004	148.613	125.416	1.00	28.90
ATOM	13691	C	ASP	H	153	87.382	147.890	126.588	1.00	27.84
ATOM	13692	O	ASP	H	153	87.100	148.503	127.599	1.00	30.00
ATOM	13693	CB	ASP	H	153	89.511	148.719	125.698	1.00	32.24
ATOM	13694	CG	ASP	H	153	90.315	149.173	124.499	1.00	38.04
ATOM	13695	OD1	ASP	H	153	90.159	148.572	123.413	1.00	48.49
ATOM	13696	OD2	ASP	H	153	91.122	150.116	124.642	1.00	36.51
ATOM	13697	N	VAL	H	154	87.152	146.597	126.445	1.00	28.68
ATOM	13698	CA	VAL	H	154	86.652	145.790	127.546	1.00	30.52
ATOM	13699	C	VAL	H	154	87.794	144.831	127.888	1.00	31.85
ATOM	13700	O	VAL	H	154	88.068	143.858	127.165	1.00	31.78

ATOM	13701	CB	VAL	H	154	85.400	144.989	127.168	1.00	31.29
ATOM	13702	CG1	VAL	H	154	85.188	143.859	128.160	1.00	27.07
ATOM	13703	CG2	VAL	H	154	84.191	145.906	127.171	1.00	35.57
ATOM	13704	N	VAL	H	155	88.471	145.140	128.985	1.00	31.56
ATOM	13705	CA	VAL	H	155	89.606	144.360	129.474	1.00	30.21
ATOM	13706	C	VAL	H	155	89.248	143.226	130.442	1.00	30.09
ATOM	13707	O	VAL	H	155	88.476	143.416	131.393	1.00	26.45
ATOM	13708	CB	VAL	H	155	90.642	145.293	130.155	1.00	28.54
ATOM	13709	CG1	VAL	H	155	91.387	144.550	131.230	1.00	26.39
ATOM	13710	CG2	VAL	H	155	91.607	145.849	129.115	1.00	21.97
ATOM	13711	N	VAL	H	156	89.820	142.052	130.175	1.00	29.58
ATOM	13712	CA	VAL	H	156	89.625	140.858	131.001	1.00	30.82
ATOM	13713	C	VAL	H	156	90.968	140.576	131.657	1.00	31.18
ATOM	13714	O	VAL	H	156	91.841	139.964	131.050	1.00	36.58
ATOM	13715	CB	VAL	H	156	89.233	139.645	130.140	1.00	31.65
ATOM	13716	CG1	VAL	H	156	89.266	138.390	130.964	1.00	29.21
ATOM	13717	CG2	VAL	H	156	87.849	139.853	129.556	1.00	33.62
ATOM	13718	N	PRO	H	157	91.147	141.002	132.916	1.00	31.16
ATOM	13719	CA	PRO	H	157	92.397	140.805	133.653	1.00	28.22
ATOM	13720	C	PRO	H	157	92.919	139.378	133.573	1.00	27.67
ATOM	13721	O	PRO	H	157	92.153	138.410	133.594	1.00	23.85
ATOM	13722	CB	PRO	H	157	92.022	141.195	135.074	1.00	27.86
ATOM	13723	CG	PRO	H	157	90.910	142.149	134.882	1.00	29.79
ATOM	13724	CD	PRO	H	157	90.094	141.450	133.839	1.00	33.03
ATOM	13725	N	THR	H	158	94.235	139.251	133.469	1.00	25.54
ATOM	13726	CA	THR	H	158	94.837	137.934	133.403	1.00	25.35
ATOM	13727	C	THR	H	158	94.884	137.352	134.806	1.00	24.74
ATOM	13728	O	THR	H	158	95.309	138.020	135.744	1.00	24.27
ATOM	13729	CB	THR	H	158	96.253	138.001	132.792	1.00	21.49
ATOM	13730	OG1	THR	H	158	97.022	136.884	133.230	1.00	15.83
ATOM	13731	CG2	THR	H	158	96.924	139.249	133.185	1.00	16.55
ATOM	13732	N	GLY	H	159	94.426	136.109	134.940	1.00	26.13
ATOM	13733	CA	GLY	H	159	94.407	135.447	136.235	1.00	27.53
ATOM	13734	C	GLY	H	159	95.694	134.751	136.668	1.00	27.25
ATOM	13735	O	GLY	H	159	96.726	134.785	135.982	1.00	27.08
ATOM	13736	N	GLY	H	160	95.644	134.116	137.826	1.00	23.94
ATOM	13737	CA	GLY	H	160	96.833	133.442	138.294	1.00	25.63
ATOM	13738	C	GLY	H	160	96.908	132.090	137.653	1.00	24.20
ATOM	13739	O	GLY	H	160	95.888	131.581	137.203	1.00	24.42
ATOM	13740	N	CYS	H	161	98.093	131.498	137.624	1.00	25.53
ATOM	13741	CA	CYS	H	161	98.244	130.186	137.019	1.00	32.90
ATOM	13742	C	CYS	H	161	97.753	129.039	137.930	1.00	36.34
ATOM	13743	O	CYS	H	161	97.402	129.265	139.093	1.00	37.28
ATOM	13744	CB	CYS	H	161	99.697	130.002	136.634	1.00	34.06
ATOM	13745	SG	CYS	H	161	100.323	131.438	135.698	1.00	42.71
ATOM	13746	N	ASP	H	162	97.692	127.819	137.402	1.00	38.17
ATOM	13747	CA	ASP	H	162	97.237	126.699	138.212	1.00	39.16
ATOM	13748	C	ASP	H	162	98.337	125.689	138.475	1.00	41.71
ATOM	13749	O	ASP	H	162	98.955	125.157	137.554	1.00	40.07
ATOM	13750	CB	ASP	H	162	96.055	125.997	137.560	1.00	41.16
ATOM	13751	CG	ASP	H	162	95.563	124.811	138.377	1.00	44.99
ATOM	13752	OD1	ASP	H	162	95.627	124.882	139.624	1.00	45.27
ATOM	13753	OD2	ASP	H	162	95.094	123.816	137.779	1.00	47.81
ATOM	13754	N	VAL	H	163	98.571	125.433	139.755	1.00	45.24
ATOM	13755	CA	VAL	H	163	99.591	124.500	140.174	1.00	48.96
ATOM	13756	C	VAL	H	163	99.014	123.125	140.434	1.00	55.06
ATOM	13757	O	VAL	H	163	98.597	122.812	141.543	1.00	55.72
ATOM	13758	CB	VAL	H	163	100.287	124.997	141.433	1.00	45.51
ATOM	13759	CG1	VAL	H	163	101.273	123.956	141.925	1.00	45.53
ATOM	13760	CG2	VAL	H	163	101.006	126.301	141.132	1.00	42.98
ATOM	13761	N	SER	H	164	98.987	122.307	139.391	1.00	62.28
ATOM	13762	CA	SER	H	164	98.474	120.954	139.506	1.00	70.12

ATOM	13763	C	SER	H	164	99.534	120.112	140.200	1.00	74.13
ATOM	13764	O	SER	H	164	100.723	120.197	139.878	1.00	75.11
ATOM	13765	CB	SER	H	164	98.185	120.364	138.122	1.00	72.21
ATOM	13766	OG	SER	H	164	97.224	121.126	137.412	1.00	78.00
ATOM	13767	N	ALA	H	165	99.098	119.296	141.152	1.00	78.28
ATOM	13768	CA	ALA	H	165	100.010	118.436	141.890	1.00	80.82
ATOM	13769	C	ALA	H	165	99.263	117.284	142.564	1.00	82.56
ATOM	13770	O	ALA	H	165	98.085	117.406	142.911	1.00	82.47
ATOM	13771	CB	ALA	H	165	100.766	119.260	142.934	1.00	79.55
ATOM	13772	N	ARG	H	166	99.951	116.158	142.724	1.00	84.69
ATOM	13773	CA	ARG	H	166	99.374	114.990	143.383	1.00	86.04
ATOM	13774	C	ARG	H	166	99.635	115.168	144.889	1.00	85.49
ATOM	13775	O	ARG	H	166	100.777	115.353	145.329	1.00	85.58
ATOM	13776	CB	ARG	H	166	100.022	113.716	142.828	1.00	87.32
ATOM	13777	CG	ARG	H	166	99.936	113.649	141.302	1.00	87.79
ATOM	13778	CD	ARG	H	166	100.680	112.467	140.701	1.00	89.19
ATOM	13779	NE	ARG	H	166	100.804	112.616	139.250	1.00	90.86
ATOM	13780	CZ	ARG	H	166	101.623	111.900	138.483	1.00	90.81
ATOM	13781	NH1	ARG	H	166	102.403	110.967	139.018	1.00	91.03
ATOM	13782	NH2	ARG	H	166	101.683	112.135	137.182	1.00	89.11
ATOM	13783	N	ASP	H	167	98.556	115.136	145.662	1.00	83.81
ATOM	13784	CA	ASP	H	167	98.610	115.352	147.102	1.00	82.41
ATOM	13785	C	ASP	H	167	99.722	114.651	147.854	1.00	80.99
ATOM	13786	O	ASP	H	167	100.370	113.754	147.319	1.00	81.13
ATOM	13787	CB	ASP	H	167	97.277	114.973	147.738	1.00	83.75
ATOM	13788	CG	ASP	H	167	97.054	115.674	149.051	1.00	84.65
ATOM	13789	OD1	ASP	H	167	97.880	116.547	149.397	1.00	88.24
ATOM	13790	OD2	ASP	H	167	96.056	115.365	149.731	1.00	83.97
ATOM	13791	N	VAL	H	168	99.915	115.081	149.104	1.00	79.68
ATOM	13792	CA	VAL	H	168	100.930	114.554	150.023	1.00	78.20
ATOM	13793	C	VAL	H	168	101.775	113.416	149.441	1.00	77.93
ATOM	13794	O	VAL	H	168	101.306	112.280	149.304	1.00	78.39
ATOM	13795	CB	VAL	H	168	100.274	114.092	151.363	1.00	77.14
ATOM	13796	CG1	VAL	H	168	99.073	113.205	151.082	1.00	76.56
ATOM	13797	CG2	VAL	H	168	101.290	113.354	152.225	1.00	74.06
ATOM	13798	N	THR	H	169	103.025	113.732	149.102	1.00	74.97
ATOM	13799	CA	THR	H	169	103.933	112.752	148.521	1.00	72.66
ATOM	13800	C	THR	H	169	104.496	111.773	149.541	1.00	71.07
ATOM	13801	O	THR	H	169	104.918	112.158	150.633	1.00	70.14
ATOM	13802	CB	THR	H	169	105.095	113.437	147.812	1.00	73.57
ATOM	13803	OG1	THR	H	169	104.582	114.283	146.778	1.00	75.38
ATOM	13804	CG2	THR	H	169	106.020	112.405	147.199	1.00	74.00
ATOM	13805	N	VAL	H	170	104.504	110.500	149.162	1.00	69.95
ATOM	13806	CA	VAL	H	170	104.996	109.435	150.026	1.00	68.61
ATOM	13807	C	VAL	H	170	106.506	109.260	149.860	1.00	68.05
ATOM	13808	O	VAL	H	170	106.973	108.467	149.039	1.00	67.18
ATOM	13809	CB	VAL	H	170	104.280	108.094	149.711	1.00	67.59
ATOM	13810	CG1	VAL	H	170	104.259	107.216	150.940	1.00	64.15
ATOM	13811	CG2	VAL	H	170	102.859	108.359	149.224	1.00	68.91
ATOM	13812	N	THR	H	171	107.263	110.019	150.644	1.00	67.11
ATOM	13813	CA	THR	H	171	108.714	109.956	150.605	1.00	67.04
ATOM	13814	C	THR	H	171	109.130	108.651	151.257	1.00	68.21
ATOM	13815	O	THR	H	171	110.271	108.488	151.679	1.00	69.97
ATOM	13816	CB	THR	H	171	109.353	111.147	151.372	1.00	64.26
ATOM	13817	OG1	THR	H	171	110.768	110.972	151.467	1.00	62.90
ATOM	13818	CG2	THR	H	171	108.812	111.232	152.756	1.00	65.61
ATOM	13819	N	LEU	H	172	108.195	107.712	151.319	1.00	69.24
ATOM	13820	CA	LEU	H	172	108.462	106.415	151.932	1.00	70.71
ATOM	13821	C	LEU	H	172	109.820	105.817	151.557	1.00	68.86
ATOM	13822	O	LEU	H	172	110.542	105.356	152.449	1.00	69.64
ATOM	13823	CB	LEU	H	172	107.333	105.414	151.599	1.00	73.44
ATOM	13824	CG	LEU	H	172	107.368	103.963	152.124	1.00	73.35

ATOM	13825	CD1	LEU	H	172	105.968	103.356	152.041	1.00	72.71
ATOM	13826	CD2	LEU	H	172	108.359	103.120	151.314	1.00	72.26
ATOM	13827	N	PRO	H	173	110.194	105.834	150.253	1.00	64.78
ATOM	13828	CA	PRO	H	173	111.490	105.254	149.900	1.00	62.81
ATOM	13829	C	PRO	H	173	112.407	105.219	151.102	1.00	62.44
ATOM	13830	O	PRO	H	173	113.085	106.191	151.402	1.00	62.95
ATOM	13831	CB	PRO	H	173	111.995	106.165	148.772	1.00	60.27
ATOM	13832	CG	PRO	H	173	111.039	107.322	148.750	1.00	60.84
ATOM	13833	CD	PRO	H	173	109.743	106.716	149.170	1.00	62.11
ATOM	13834	N	ASP	H	174	112.367	104.092	151.808	1.00	62.80
ATOM	13835	CA	ASP	H	174	113.153	103.878	153.011	1.00	64.46
ATOM	13836	C	ASP	H	174	114.373	104.785	153.042	1.00	64.06
ATOM	13837	O	ASP	H	174	115.112	104.880	152.059	1.00	62.74
ATOM	13838	CB	ASP	H	174	113.551	102.409	153.097	1.00	68.91
ATOM	13839	CG	ASP	H	174	112.346	101.492	153.194	1.00	72.08
ATOM	13840	OD1	ASP	H	174	111.470	101.563	152.301	1.00	72.68
ATOM	13841	OD2	ASP	H	174	112.276	100.706	154.166	1.00	76.31
ATOM	13842	N	TYR	H	175	114.562	105.446	154.183	1.00	61.82
ATOM	13843	CA	TYR	H	175	115.639	106.410	154.393	1.00	59.53
ATOM	13844	C	TYR	H	175	116.554	106.750	153.243	1.00	58.19
ATOM	13845	O	TYR	H	175	116.632	107.913	152.855	1.00	63.15
ATOM	13846	CB	TYR	H	175	116.527	106.034	155.570	1.00	59.72
ATOM	13847	CG	TYR	H	175	117.826	106.828	155.582	1.00	57.62
ATOM	13848	CD1	TYR	H	175	117.827	108.223	155.470	1.00	53.54
ATOM	13849	CD2	TYR	H	175	119.055	106.182	155.707	1.00	56.77
ATOM	13850	CE1	TYR	H	175	119.024	108.941	155.485	1.00	53.53
ATOM	13851	CE2	TYR	H	175	120.249	106.895	155.726	1.00	53.00
ATOM	13852	CZ	TYR	H	175	120.226	108.264	155.617	1.00	50.90
ATOM	13853	OH	TYR	H	175	121.410	108.944	155.672	1.00	49.16
ATOM	13854	N	PRO	H	176	117.298	105.769	152.708	1.00	53.30
ATOM	13855	CA	PRO	H	176	118.178	106.146	151.596	1.00	51.10
ATOM	13856	C	PRO	H	176	117.451	106.623	150.323	1.00	49.15
ATOM	13857	O	PRO	H	176	117.884	107.590	149.681	1.00	45.57
ATOM	13858	CB	PRO	H	176	119.001	104.880	151.380	1.00	50.86
ATOM	13859	CG	PRO	H	176	118.029	103.793	151.773	1.00	50.09
ATOM	13860	CD	PRO	H	176	117.443	104.343	153.038	1.00	47.73
ATOM	13861	N	GLY	H	177	116.342	105.955	149.995	1.00	46.80
ATOM	13862	CA	GLY	H	177	115.556	106.258	148.803	1.00	47.75
ATOM	13863	C	GLY	H	177	115.236	107.706	148.465	1.00	48.21
ATOM	13864	O	GLY	H	177	115.495	108.609	149.259	1.00	50.79
ATOM	13865	N	SER	H	178	114.673	107.933	147.278	1.00	46.06
ATOM	13866	CA	SER	H	178	114.325	109.288	146.862	1.00	44.63
ATOM	13867	C	SER	H	178	113.312	109.301	145.725	1.00	44.60
ATOM	13868	O	SER	H	178	113.595	108.798	144.647	1.00	45.70
ATOM	13869	CB	SER	H	178	115.574	110.038	146.420	1.00	39.45
ATOM	13870	OG	SER	H	178	115.874	109.743	145.077	1.00	32.51
ATOM	13871	N	VAL	H	179	112.140	109.893	145.959	1.00	45.67
ATOM	13872	CA	VAL	H	179	111.087	109.952	144.937	1.00	44.68
ATOM	13873	C	VAL	H	179	111.069	111.253	144.180	1.00	45.73
ATOM	13874	O	VAL	H	179	111.654	112.251	144.604	1.00	47.64
ATOM	13875	CB	VAL	H	179	109.652	109.814	145.521	1.00	40.15
ATOM	13876	CG1	VAL	H	179	109.449	108.464	146.146	1.00	40.15
ATOM	13877	CG2	VAL	H	179	109.413	110.896	146.536	1.00	43.75
ATOM	13878	N	PRO	H	180	110.413	111.245	143.017	1.00	46.66
ATOM	13879	CA	PRO	H	180	110.269	112.419	142.156	1.00	45.68
ATOM	13880	C	PRO	H	180	108.915	113.025	142.568	1.00	45.74
ATOM	13881	O	PRO	H	180	107.983	112.296	142.914	1.00	44.87
ATOM	13882	CB	PRO	H	180	110.266	111.815	140.762	1.00	42.10
ATOM	13883	CG	PRO	H	180	109.545	110.537	140.977	1.00	45.77
ATOM	13884	CD	PRO	H	180	110.116	110.009	142.271	1.00	45.14
ATOM	13885	N	ILE	H	181	108.818	114.350	142.570	1.00	45.68
ATOM	13886	CA	ILE	H	181	107.586	115.017	142.976	1.00	43.15

ATOM	13887	C	ILE	H	181	106.875	115.635	141.794	1.00	41.64
ATOM	13888	O	ILE	H	181	107.351	116.583	141.180	1.00	41.39
ATOM	13889	CB	ILE	H	181	107.849	116.147	144.006	1.00	44.41
ATOM	13890	CG1	ILE	H	181	108.510	115.585	145.262	1.00	43.61
ATOM	13891	CG2	ILE	H	181	106.543	116.803	144.395	1.00	43.34
ATOM	13892	CD1	ILE	H	181	108.986	116.661	146.201	1.00	41.08
ATOM	13893	N	PRO	H	182	105.718	115.093	141.453	1.00	41.24
ATOM	13894	CA	PRO	H	182	104.935	115.604	140.335	1.00	41.80
ATOM	13895	C	PRO	H	182	104.419	116.992	140.661	1.00	41.37
ATOM	13896	O	PRO	H	182	103.738	117.169	141.661	1.00	42.47
ATOM	13897	CB	PRO	H	182	103.805	114.601	140.241	1.00	42.56
ATOM	13898	CG	PRO	H	182	104.458	113.340	140.708	1.00	43.05
ATOM	13899	CD	PRO	H	182	105.182	113.811	141.922	1.00	41.46
ATOM	13900	N	LEU	H	183	104.740	117.975	139.829	1.00	41.54
ATOM	13901	CA	LEU	H	183	104.267	119.335	140.066	1.00	40.01
ATOM	13902	C	LEU	H	183	104.472	120.161	138.804	1.00	38.96
ATOM	13903	O	LEU	H	183	105.600	120.380	138.344	1.00	36.00
ATOM	13904	CB	LEU	H	183	105.015	119.957	141.253	1.00	43.33
ATOM	13905	CG	LEU	H	183	104.342	121.037	142.108	1.00	44.43
ATOM	13906	CD1	LEU	H	183	105.196	121.294	143.320	1.00	43.54
ATOM	13907	CD2	LEU	H	183	104.160	122.318	141.321	1.00	49.28
ATOM	13908	N	THR	H	184	103.354	120.601	138.244	1.00	39.58
ATOM	13909	CA	THR	H	184	103.346	121.389	137.017	1.00	39.54
ATOM	13910	C	THR	H	184	102.472	122.632	137.179	1.00	38.76
ATOM	13911	O	THR	H	184	101.653	122.720	138.095	1.00	36.90
ATOM	13912	CB	THR	H	184	102.802	120.544	135.833	1.00	39.49
ATOM	13913	OG1	THR	H	184	101.691	119.756	136.287	1.00	38.46
ATOM	13914	CG2	THR	H	184	103.875	119.618	135.282	1.00	35.56
ATOM	13915	N	VAL	H	185	102.648	123.587	136.279	1.00	38.94
ATOM	13916	CA	VAL	H	185	101.878	124.817	136.314	1.00	40.14
ATOM	13917	C	VAL	H	185	101.400	125.160	134.930	1.00	41.61
ATOM	13918	O	VAL	H	185	102.186	125.107	133.987	1.00	43.05
ATOM	13919	CB	VAL	H	185	102.727	126.016	136.782	1.00	40.19
ATOM	13920	CG1	VAL	H	185	102.939	125.946	138.257	1.00	44.70
ATOM	13921	CG2	VAL	H	185	104.064	126.031	136.061	1.00	31.62
ATOM	13922	N	TYR	H	186	100.125	125.506	134.791	1.00	41.14
ATOM	13923	CA	TYR	H	186	99.634	125.903	133.485	1.00	42.73
ATOM	13924	C	TYR	H	186	98.914	127.235	133.623	1.00	44.22
ATOM	13925	O	TYR	H	186	98.014	127.388	134.449	1.00	45.73
ATOM	13926	CB	TYR	H	186	98.731	124.824	132.872	1.00	41.28
ATOM	13927	CG	TYR	H	186	97.400	124.641	133.535	1.00	45.57
ATOM	13928	CD1	TYR	H	186	96.324	125.479	133.234	1.00	50.20
ATOM	13929	CD2	TYR	H	186	97.199	123.615	134.448	1.00	47.90
ATOM	13930	CE1	TYR	H	186	95.072	125.294	133.829	1.00	53.36
ATOM	13931	CE2	TYR	H	186	95.956	123.417	135.049	1.00	53.28
ATOM	13932	CZ	TYR	H	186	94.895	124.256	134.736	1.00	54.40
ATOM	13933	OH	TYR	H	186	93.666	124.046	135.325	1.00	55.61
ATOM	13934	N	CYS	H	187	99.358	128.215	132.842	1.00	42.77
ATOM	13935	CA	CYS	H	187	98.762	129.533	132.870	1.00	40.13
ATOM	13936	C	CYS	H	187	97.836	129.646	131.675	1.00	39.40
ATOM	13937	O	CYS	H	187	98.214	129.285	130.573	1.00	36.66
ATOM	13938	CB	CYS	H	187	99.838	130.615	132.767	1.00	41.22
ATOM	13939	SG	CYS	H	187	101.165	130.617	134.027	1.00	44.36
ATOM	13940	N	ALA	H	188	96.627	130.156	131.902	1.00	39.99
ATOM	13941	CA	ALA	H	188	95.641	130.332	130.838	1.00	36.98
ATOM	13942	C	ALA	H	188	96.195	131.284	129.793	1.00	36.49
ATOM	13943	O	ALA	H	188	95.906	131.147	128.606	1.00	40.48
ATOM	13944	CB	ALA	H	188	94.366	130.881	131.403	1.00	31.22
ATOM	13945	N	LYS	H	189	96.986	132.248	130.246	1.00	33.92
ATOM	13946	CA	LYS	H	189	97.614	133.220	129.371	1.00	34.40
ATOM	13947	C	LYS	H	189	99.080	133.224	129.757	1.00	37.42
ATOM	13948	O	LYS	H	189	99.431	133.469	130.912	1.00	37.14

ATOM	13949	CB	LYS	H	189	97.040	134.619	129.587	1.00	35.00
ATOM	13950	CG	LYS	H	189	95.540	134.738	129.390	1.00	35.37
ATOM	13951	CD	LYS	H	189	95.152	134.663	127.914	1.00	39.02
ATOM	13952	CE	LYS	H	189	95.490	135.946	127.166	1.00	37.65
ATOM	13953	NZ	LYS	H	189	95.451	135.761	125.685	1.00	38.45
ATOM	13954	N	SER	H	190	99.932	132.940	128.781	1.00	39.66
ATOM	13955	CA	SER	H	190	101.370	132.891	128.987	1.00	38.77
ATOM	13956	C	SER	H	190	101.914	134.092	129.761	1.00	38.90
ATOM	13957	O	SER	H	190	101.571	135.250	129.493	1.00	39.36
ATOM	13958	CB	SER	H	190	102.076	132.771	127.636	1.00	39.62
ATOM	13959	OG	SER	H	190	103.468	133.009	127.759	1.00	44.36
ATOM	13960	N	GLN	H	191	102.762	133.780	130.739	1.00	39.18
ATOM	13961	CA	GLN	H	191	103.412	134.763	131.599	1.00	34.89
ATOM	13962	C	GLN	H	191	104.599	134.092	132.263	1.00	34.23
ATOM	13963	O	GLN	H	191	104.663	132.866	132.366	1.00	32.13
ATOM	13964	CB	GLN	H	191	102.448	135.257	132.674	1.00	31.70
ATOM	13965	CG	GLN	H	191	101.741	134.144	133.408	1.00	30.44
ATOM	13966	CD	GLN	H	191	100.974	134.640	134.597	1.00	28.65
ATOM	13967	OE1	GLN	H	191	101.539	135.253	135.491	1.00	32.99
ATOM	13968	NE2	GLN	H	191	99.679	134.376	134.622	1.00	30.29
ATOM	13969	N	ASN	H	192	105.540	134.911	132.709	1.00	34.04
ATOM	13970	CA	ASN	H	192	106.728	134.412	133.374	1.00	35.30
ATOM	13971	C	ASN	H	192	106.510	134.079	134.856	1.00	34.66
ATOM	13972	O	ASN	H	192	106.047	134.902	135.636	1.00	36.45
ATOM	13973	CB	ASN	H	192	107.844	135.437	133.263	1.00	35.69
ATOM	13974	CG	ASN	H	192	108.188	135.762	131.835	1.00	41.90
ATOM	13975	OD1	ASN	H	192	108.269	134.863	130.990	1.00	40.62
ATOM	13976	ND2	ASN	H	192	108.414	137.051	131.551	1.00	44.64
ATOM	13977	N	LEU	H	193	106.844	132.861	135.242	1.00	32.68
ATOM	13978	CA	LEU	H	193	106.703	132.472	136.621	1.00	30.29
ATOM	13979	C	LEU	H	193	108.071	132.373	137.277	1.00	31.97
ATOM	13980	O	LEU	H	193	109.093	132.268	136.613	1.00	30.96
ATOM	13981	CB	LEU	H	193	105.982	131.134	136.737	1.00	26.40
ATOM	13982	CG	LEU	H	193	104.454	131.175	136.683	1.00	29.66
ATOM	13983	CD1	LEU	H	193	103.867	129.783	136.954	1.00	26.21
ATOM	13984	CD2	LEU	H	193	103.957	132.164	137.716	1.00	25.96
ATOM	13985	N	GLY	H	194	108.071	132.432	138.600	1.00	35.11
ATOM	13986	CA	GLY	H	194	109.290	132.318	139.375	1.00	35.20
ATOM	13987	C	GLY	H	194	108.880	131.727	140.713	1.00	36.65
ATOM	13988	O	GLY	H	194	107.876	132.171	141.293	1.00	36.00
ATOM	13989	N	TYR	H	195	109.608	130.724	141.210	1.00	33.31
ATOM	13990	CA	TYR	H	195	109.220	130.155	142.499	1.00	31.08
ATOM	13991	C	TYR	H	195	110.367	129.912	143.457	1.00	29.04
ATOM	13992	O	TYR	H	195	111.518	129.811	143.044	1.00	27.80
ATOM	13993	CB	TYR	H	195	108.461	128.853	142.310	1.00	29.22
ATOM	13994	CG	TYR	H	195	109.371	127.693	142.042	1.00	32.30
ATOM	13995	CD1	TYR	H	195	110.022	127.567	140.816	1.00	31.40
ATOM	13996	CD2	TYR	H	195	109.636	126.752	143.038	1.00	30.97
ATOM	13997	CE1	TYR	H	195	110.920	126.540	140.589	1.00	31.05
ATOM	13998	CE2	TYR	H	195	110.533	125.717	142.825	1.00	33.02
ATOM	13999	CZ	TYR	H	195	111.178	125.617	141.598	1.00	33.77
ATOM	14000	OH	TYR	H	195	112.108	124.621	141.396	1.00	30.23
ATOM	14001	N	TYR	H	196	110.028	129.860	144.748	1.00	27.79
ATOM	14002	CA	TYR	H	196	110.998	129.602	145.812	1.00	26.42
ATOM	14003	C	TYR	H	196	110.349	128.828	146.947	1.00	23.02
ATOM	14004	O	TYR	H	196	109.147	128.932	147.177	1.00	24.81
ATOM	14005	CB	TYR	H	196	111.642	130.899	146.332	1.00	25.28
ATOM	14006	CG	TYR	H	196	110.752	131.826	147.117	1.00	23.25
ATOM	14007	CD1	TYR	H	196	110.318	131.500	148.401	1.00	23.98
ATOM	14008	CD2	TYR	H	196	110.339	133.035	146.570	1.00	24.56
ATOM	14009	CE1	TYR	H	196	109.484	132.362	149.119	1.00	25.79
ATOM	14010	CE2	TYR	H	196	109.507	133.905	147.277	1.00	24.89

ATOM	14011	CZ	TYR	H	196	109.082	133.564	148.543	1.00	25.84
ATOM	14012	OH	TYR	H	196	108.249	134.422	149.206	1.00	25.29
ATOM	14013	N	LEU	H	197	111.158	128.029	147.630	1.00	20.86
ATOM	14014	CA	LEU	H	197	110.701	127.198	148.731	1.00	18.67
ATOM	14015	C	LEU	H	197	110.969	127.914	150.035	1.00	18.96
ATOM	14016	O	LEU	H	197	111.932	128.685	150.163	1.00	18.95
ATOM	14017	CB	LEU	H	197	111.452	125.873	148.721	1.00	19.19
ATOM	14018	CG	LEU	H	197	111.507	125.166	147.365	1.00	20.75
ATOM	14019	CD1	LEU	H	197	112.544	124.051	147.398	1.00	16.42
ATOM	14020	CD2	LEU	H	197	110.107	124.632	147.018	1.00	19.59
ATOM	14021	N	SER	H	198	110.099	127.657	150.998	1.00	17.70
ATOM	14022	CA	SER	H	198	110.198	128.251	152.317	1.00	17.21
ATOM	14023	C	SER	H	198	109.819	127.169	153.291	1.00	18.64
ATOM	14024	O	SER	H	198	108.960	126.326	153.006	1.00	14.78
ATOM	14025	CB	SER	H	198	109.235	129.432	152.473	1.00	15.28
ATOM	14026	OG	SER	H	198	107.916	129.065	152.108	1.00	22.13
ATOM	14027	N	GLY	H	199	110.465	127.204	154.448	1.00	21.13
ATOM	14028	CA	GLY	H	199	110.204	126.223	155.481	1.00	21.22
ATOM	14029	C	GLY	H	199	111.334	126.298	156.470	1.00	21.42
ATOM	14030	O	GLY	H	199	112.331	126.971	156.207	1.00	23.61
ATOM	14031	N	THR	H	200	111.190	125.631	157.608	1.00	21.49
ATOM	14032	CA	THR	H	200	112.252	125.657	158.597	1.00	22.23
ATOM	14033	C	THR	H	200	113.415	124.854	158.054	1.00	24.75
ATOM	14034	O	THR	H	200	113.234	123.813	157.417	1.00	28.81
ATOM	14035	CB	THR	H	200	111.837	125.042	159.916	1.00	19.91
ATOM	14036	OG1	THR	H	200	110.501	125.442	160.228	1.00	23.91
ATOM	14037	CG2	THR	H	200	112.759	125.523	161.000	1.00	15.73
ATOM	14038	N	THR	H	201	114.617	125.331	158.315	1.00	22.25
ATOM	14039	CA	THR	H	201	115.769	124.649	157.810	1.00	19.82
ATOM	14040	C	THR	H	201	116.602	124.134	158.952	1.00	18.90
ATOM	14041	O	THR	H	201	116.402	124.526	160.093	1.00	20.51
ATOM	14042	CB	THR	H	201	116.528	125.597	156.885	1.00	21.95
ATOM	14043	OG1	THR	H	201	116.272	125.195	155.536	1.00	23.01
ATOM	14044	CG2	THR	H	201	118.027	125.618	157.174	1.00	22.93
ATOM	14045	N	ALA	H	202	117.542	123.257	158.640	1.00	16.04
ATOM	14046	CA	ALA	H	202	118.363	122.668	159.655	1.00	13.18
ATOM	14047	C	ALA	H	202	119.859	122.700	159.377	1.00	13.30
ATOM	14048	O	ALA	H	202	120.633	122.113	160.126	1.00	18.16
ATOM	14049	CB	ALA	H	202	117.904	121.236	159.848	1.00	16.44
ATOM	14050	N	ASP	H	203	120.289	123.371	158.320	1.00	11.26
ATOM	14051	CA	ASP	H	203	121.711	123.382	157.991	1.00	9.36
ATOM	14052	C	ASP	H	203	122.227	124.759	157.663	1.00	9.41
ATOM	14053	O	ASP	H	203	121.439	125.642	157.373	1.00	12.50
ATOM	14054	CB	ASP	H	203	121.974	122.442	156.814	1.00	13.96
ATOM	14055	CG	ASP	H	203	121.293	122.884	155.528	1.00	17.82
ATOM	14056	OD1	ASP	H	203	120.054	123.057	155.511	1.00	20.29
ATOM	14057	OD2	ASP	H	203	122.017	123.047	154.526	1.00	18.41
ATOM	14058	N	ALA	H	204	123.539	124.956	157.706	1.00	7.20
ATOM	14059	CA	ALA	H	204	124.078	126.271	157.384	1.00	10.68
ATOM	14060	C	ALA	H	204	123.771	126.676	155.946	1.00	13.58
ATOM	14061	O	ALA	H	204	123.501	127.847	155.669	1.00	17.67
ATOM	14062	CB	ALA	H	204	125.558	126.313	157.617	1.00	9.25
ATOM	14063	N	GLY	H	205	123.808	125.705	155.039	1.00	12.67
ATOM	14064	CA	GLY	H	205	123.514	125.971	153.642	1.00	13.46
ATOM	14065	C	GLY	H	205	122.032	126.131	153.323	1.00	14.97
ATOM	14066	O	GLY	H	205	121.648	126.206	152.156	1.00	12.37
ATOM	14067	N	ASN	H	206	121.203	126.135	154.365	1.00	16.15
ATOM	14068	CA	ASN	H	206	119.762	126.354	154.249	1.00	17.54
ATOM	14069	C	ASN	H	206	118.990	125.483	153.265	1.00	17.40
ATOM	14070	O	ASN	H	206	117.953	125.914	152.756	1.00	13.65
ATOM	14071	CB	ASN	H	206	119.524	127.828	153.891	1.00	19.53
ATOM	14072	CG	ASN	H	206	118.122	128.302	154.223	1.00	25.32

ATOM	14073	OD1	ASN	H	206	117.651	129.292	153.667	1.00	32.54
ATOM	14074	ND2	ASN	H	206	117.458	127.618	155.143	1.00	24.53
ATOM	14075	N	SER	H	207	119.446	124.261	153.010	1.00	17.89
ATOM	14076	CA	SER	H	207	118.727	123.442	152.040	1.00	21.68
ATOM	14077	C	SER	H	207	118.109	122.155	152.525	1.00	22.17
ATOM	14078	O	SER	H	207	117.392	121.492	151.776	1.00	23.49
ATOM	14079	CB	SER	H	207	119.627	123.141	150.844	1.00	23.97
ATOM	14080	OG	SER	H	207	120.879	122.667	151.281	1.00	32.40
ATOM	14081	N	ILE	H	208	118.372	121.792	153.772	1.00	25.67
ATOM	14082	CA	ILE	H	208	117.795	120.562	154.317	1.00	26.46
ATOM	14083	C	ILE	H	208	116.671	120.912	155.291	1.00	30.42
ATOM	14084	O	ILE	H	208	116.917	121.467	156.369	1.00	29.40
ATOM	14085	CB	ILE	H	208	118.867	119.718	155.020	1.00	20.82
ATOM	14086	CG1	ILE	H	208	120.113	119.649	154.124	1.00	13.86
ATOM	14087	CG2	ILE	H	208	118.312	118.327	155.304	1.00	10.60
ATOM	14088	CD1	ILE	H	208	121.312	119.132	154.793	1.00	12.20
ATOM	14089	N	PHE	H	209	115.436	120.600	154.889	1.00	33.73
ATOM	14090	CA	PHE	H	209	114.259	120.896	155.697	1.00	34.17
ATOM	14091	C	PHE	H	209	114.046	119.920	156.849	1.00	36.92
ATOM	14092	O	PHE	H	209	114.026	118.703	156.676	1.00	37.37
ATOM	14093	CB	PHE	H	209	113.020	120.964	154.805	1.00	30.18
ATOM	14094	CG	PHE	H	209	113.039	122.114	153.838	1.00	25.07
ATOM	14095	CD1	PHE	H	209	112.590	123.369	154.225	1.00	20.40
ATOM	14096	CD2	PHE	H	209	113.510	121.946	152.545	1.00	25.12
ATOM	14097	CE1	PHE	H	209	112.607	124.434	153.339	1.00	22.06
ATOM	14098	CE2	PHE	H	209	113.531	123.020	151.642	1.00	24.53
ATOM	14099	CZ	PHE	H	209	113.079	124.261	152.040	1.00	21.21
ATOM	14100	N	THR	H	210	113.879	120.487	158.035	1.00	41.71
ATOM	14101	CA	THR	H	210	113.704	119.729	159.261	1.00	43.89
ATOM	14102	C	THR	H	210	112.607	118.683	159.223	1.00	46.13
ATOM	14103	O	THR	H	210	111.654	118.792	158.451	1.00	43.30
ATOM	14104	CB	THR	H	210	113.434	120.674	160.423	1.00	43.28
ATOM	14105	OG1	THR	H	210	114.433	121.695	160.433	1.00	43.56
ATOM	14106	CG2	THR	H	210	113.493	119.930	161.733	1.00	46.87
ATOM	14107	N	ASN	H	211	112.755	117.672	160.080	1.00	50.19
ATOM	14108	CA	ASN	H	211	111.788	116.591	160.174	1.00	53.38
ATOM	14109	C	ASN	H	211	110.711	116.939	161.170	1.00	56.07
ATOM	14110	O	ASN	H	211	110.985	117.162	162.343	1.00	56.08
ATOM	14111	CB	ASN	H	211	112.461	115.292	160.608	1.00	54.90
ATOM	14112	CG	ASN	H	211	111.574	114.068	160.380	1.00	57.78
ATOM	14113	OD1	ASN	H	211	112.007	112.928	160.588	1.00	57.37
ATOM	14114	ND2	ASN	H	211	110.330	114.300	159.948	1.00	53.09
ATOM	14115	N	THR	H	212	109.482	116.996	160.678	1.00	61.18
ATOM	14116	CA	THR	H	212	108.311	117.307	161.486	1.00	65.91
ATOM	14117	C	THR	H	212	107.545	116.004	161.632	1.00	70.03
ATOM	14118	O	THR	H	212	107.029	115.477	160.645	1.00	71.57
ATOM	14119	CB	THR	H	212	107.408	118.310	160.764	1.00	64.79
ATOM	14120	OG1	THR	H	212	108.038	119.592	160.745	1.00	62.94
ATOM	14121	CG2	THR	H	212	106.061	118.404	161.451	1.00	68.65
ATOM	14122	N	ALA	H	213	107.460	115.479	162.847	1.00	72.45
ATOM	14123	CA	ALA	H	213	106.757	114.224	163.017	1.00	76.04
ATOM	14124	C	ALA	H	213	106.283	113.967	164.438	1.00	78.89
ATOM	14125	O	ALA	H	213	106.730	114.613	165.386	1.00	80.30
ATOM	14126	CB	ALA	H	213	107.649	113.090	162.547	1.00	74.04
ATOM	14127	N	SER	H	214	105.376	113.006	164.575	1.00	81.00
ATOM	14128	CA	SER	H	214	104.839	112.649	165.876	1.00	83.58
ATOM	14129	C	SER	H	214	105.448	111.361	166.423	1.00	85.46
ATOM	14130	O	SER	H	214	105.751	111.289	167.611	1.00	86.56
ATOM	14131	CB	SER	H	214	103.315	112.507	165.797	1.00	85.56
ATOM	14132	OG	SER	H	214	102.733	112.304	167.078	1.00	84.95
ATOM	14133	N	PHE	H	215	105.642	110.352	165.571	1.00	87.58
ATOM	14134	CA	PHE	H	215	106.198	109.078	166.038	1.00	89.41

ATOM	14135	C	PHE	H	215	107.670	108.772	165.788	1.00	88.50
ATOM	14136	O	PHE	H	215	108.082	108.452	164.666	1.00	86.01
ATOM	14137	CB	PHE	H	215	105.383	107.915	165.499	1.00	94.21
ATOM	14138	CG	PHE	H	215	105.684	106.595	166.174	1.00	101.76
ATOM	14139	CD1	PHE	H	215	105.866	106.529	167.558	1.00	104.71
ATOM	14140	CD2	PHE	H	215	105.776	105.420	165.433	1.00	103.56
ATOM	14141	CE1	PHE	H	215	106.134	105.311	168.194	1.00	104.89
ATOM	14142	CE2	PHE	H	215	106.043	104.197	166.059	1.00	104.32
ATOM	14143	CZ	PHE	H	215	106.223	104.145	167.442	1.00	105.02
ATOM	14144	N	SER	H	216	108.439	108.824	166.874	1.00	87.99
ATOM	14145	CA	SER	H	216	109.866	108.556	166.849	1.00	87.09
ATOM	14146	C	SER	H	216	110.547	109.365	165.773	1.00	85.13
ATOM	14147	O	SER	H	216	110.745	108.896	164.651	1.00	87.04
ATOM	14148	CB	SER	H	216	110.134	107.073	166.608	1.00	89.47
ATOM	14149	OG	SER	H	216	111.530	106.835	166.511	1.00	92.57
ATOM	14150	N	PRO	H	217	110.913	110.603	166.098	1.00	82.10
ATOM	14151	CA	PRO	H	217	111.578	111.427	165.097	1.00	79.98
ATOM	14152	C	PRO	H	217	112.929	110.837	164.713	1.00	77.52
ATOM	14153	O	PRO	H	217	113.926	111.083	165.389	1.00	76.22
ATOM	14154	CB	PRO	H	217	111.709	112.772	165.800	1.00	81.93
ATOM	14155	CG	PRO	H	217	111.875	112.373	167.234	1.00	81.74
ATOM	14156	CD	PRO	H	217	110.816	111.309	167.384	1.00	81.86
ATOM	14157	N	ALA	H	218	112.946	110.041	163.644	1.00	73.20
ATOM	14158	CA	ALA	H	218	114.177	109.442	163.152	1.00	68.76
ATOM	14159	C	ALA	H	218	115.203	110.558	163.031	1.00	66.46
ATOM	14160	O	ALA	H	218	115.474	111.042	161.938	1.00	67.40
ATOM	14161	CB	ALA	H	218	113.935	108.825	161.795	1.00	68.24
ATOM	14162	N	GLN	H	219	115.771	110.968	164.154	1.00	64.71
ATOM	14163	CA	GLN	H	219	116.740	112.054	164.169	1.00	65.44
ATOM	14164	C	GLN	H	219	117.937	111.784	163.273	1.00	63.79
ATOM	14165	O	GLN	H	219	118.390	110.645	163.157	1.00	64.50
ATOM	14166	CB	GLN	H	219	117.226	112.301	165.600	1.00	68.31
ATOM	14167	CG	GLN	H	219	118.261	113.407	165.732	1.00	73.62
ATOM	14168	CD	GLN	H	219	118.868	113.481	167.125	1.00	77.24
ATOM	14169	OE1	GLN	H	219	119.741	114.309	167.392	1.00	78.53
ATOM	14170	NE2	GLN	H	219	118.407	112.612	168.019	1.00	80.12
ATOM	14171	N	GLY	H	220	118.442	112.842	162.638	1.00	60.77
ATOM	14172	CA	GLY	H	220	119.608	112.712	161.780	1.00	56.17
ATOM	14173	C	GLY	H	220	119.419	113.068	160.317	1.00	52.89
ATOM	14174	O	GLY	H	220	120.352	113.554	159.662	1.00	49.76
ATOM	14175	N	VAL	H	221	118.214	112.832	159.807	1.00	49.02
ATOM	14176	CA	VAL	H	221	117.919	113.102	158.412	1.00	46.29
ATOM	14177	C	VAL	H	221	117.119	114.384	158.205	1.00	43.95
ATOM	14178	O	VAL	H	221	116.843	115.111	159.145	1.00	44.41
ATOM	14179	CB	VAL	H	221	117.144	111.931	157.799	1.00	45.21
ATOM	14180	CG1	VAL	H	221	117.241	111.980	156.279	1.00	47.14
ATOM	14181	CG2	VAL	H	221	117.693	110.629	158.332	1.00	42.14
ATOM	14182	N	GLY	H	222	116.772	114.653	156.953	1.00	40.88
ATOM	14183	CA	GLY	H	222	115.991	115.822	156.604	1.00	35.12
ATOM	14184	C	GLY	H	222	115.603	115.691	155.144	1.00	30.29
ATOM	14185	O	GLY	H	222	116.157	114.862	154.427	1.00	30.18
ATOM	14186	N	VAL	H	223	114.655	116.493	154.690	1.00	24.96
ATOM	14187	CA	VAL	H	223	114.247	116.424	153.300	1.00	20.66
ATOM	14188	C	VAL	H	223	114.853	117.575	152.490	1.00	19.78
ATOM	14189	O	VAL	H	223	114.743	118.750	152.861	1.00	17.74
ATOM	14190	CB	VAL	H	223	112.713	116.473	153.176	1.00	21.90
ATOM	14191	CG1	VAL	H	223	112.315	116.253	151.731	1.00	22.78
ATOM	14192	CG2	VAL	H	223	112.072	115.426	154.072	1.00	18.16
ATOM	14193	N	GLN	H	224	115.510	117.235	151.391	1.00	16.77
ATOM	14194	CA	GLN	H	224	116.115	118.247	150.539	1.00	21.69
ATOM	14195	C	GLN	H	224	115.504	118.089	149.168	1.00	23.21
ATOM	14196	O	GLN	H	224	115.389	116.972	148.688	1.00	28.01

ATOM	14197	CB	GLN	H	224	117.629	118.054	150.462	1.00	19.08
ATOM	14198	CG	GLN	H	224	118.348	118.941	149.459	1.00	20.05
ATOM	14199	CD	GLN	H	224	119.860	118.938	149.685	1.00	29.46
ATOM	14200	OE1	GLN	H	224	120.372	119.669	150.529	1.00	36.82
ATOM	14201	NE2	GLN	H	224	120.574	118.099	148.950	1.00	31.10
ATOM	14202	N	LEU	H	225	115.094	119.192	148.540	1.00	23.97
ATOM	14203	CA	LEU	H	225	114.500	119.096	147.211	1.00	19.34
ATOM	14204	C	LEU	H	225	115.476	119.507	146.140	1.00	18.11
ATOM	14205	O	LEU	H	225	116.223	120.474	146.264	1.00	16.97
ATOM	14206	CB	LEU	H	225	113.207	119.915	147.107	1.00	14.19
ATOM	14207	CG	LEU	H	225	112.241	119.656	148.269	1.00	19.60
ATOM	14208	CD1	LEU	H	225	110.884	120.177	147.919	1.00	12.08
ATOM	14209	CD2	LEU	H	225	112.180	118.172	148.599	1.00	17.06
ATOM	14210	N	THR	H	226	115.465	118.733	145.073	1.00	20.89
ATOM	14211	CA	THR	H	226	116.352	118.984	143.961	1.00	22.49
ATOM	14212	C	THR	H	226	115.542	119.043	142.665	1.00	21.33
ATOM	14213	O	THR	H	226	114.514	118.366	142.526	1.00	17.89
ATOM	14214	CB	THR	H	226	117.384	117.859	143.890	1.00	23.62
ATOM	14215	OG1	THR	H	226	118.152	117.991	142.698	1.00	28.41
ATOM	14216	CG2	THR	H	226	116.682	116.507	143.905	1.00	24.25
ATOM	14217	N	ARG	H	227	115.986	119.879	141.735	1.00	20.17
ATOM	14218	CA	ARG	H	227	115.316	120.003	140.447	1.00	22.48
ATOM	14219	C	ARG	H	227	116.351	119.583	139.426	1.00	25.81
ATOM	14220	O	ARG	H	227	117.267	120.346	139.116	1.00	26.09
ATOM	14221	CB	ARG	H	227	114.859	121.447	140.188	1.00	17.25
ATOM	14222	CG	ARG	H	227	115.935	122.507	140.330	1.00	17.93
ATOM	14223	CD	ARG	H	227	115.411	123.881	139.962	1.00	23.74
ATOM	14224	NE	ARG	H	227	116.482	124.747	139.473	1.00	27.57
ATOM	14225	CZ	ARG	H	227	117.234	125.513	140.252	1.00	34.19
ATOM	14226	NH1	ARG	H	227	117.024	125.532	141.562	1.00	43.18
ATOM	14227	NH2	ARG	H	227	118.221	126.233	139.737	1.00	35.88
ATOM	14228	N	ASN	H	228	116.220	118.354	138.927	1.00	29.55
ATOM	14229	CA	ASN	H	228	117.173	117.817	137.951	1.00	34.02
ATOM	14230	C	ASN	H	228	118.612	117.852	138.480	1.00	34.44
ATOM	14231	O	ASN	H	228	119.512	118.423	137.844	1.00	33.71
ATOM	14232	CB	ASN	H	228	117.110	118.606	136.639	1.00	39.95
ATOM	14233	CG	ASN	H	228	115.870	118.297	135.835	1.00	45.74
ATOM	14234	OD1	ASN	H	228	115.698	117.182	135.333	1.00	47.28
ATOM	14235	ND2	ASN	H	228	114.990	119.284	135.709	1.00	51.10
ATOM	14236	N	GLY	H	229	118.822	117.255	139.650	1.00	32.82
ATOM	14237	CA	GLY	H	229	120.156	117.217	140.224	1.00	31.91
ATOM	14238	C	GLY	H	229	120.664	118.489	140.878	1.00	30.60
ATOM	14239	O	GLY	H	229	121.710	118.474	141.529	1.00	25.85
ATOM	14240	N	THR	H	230	119.929	119.587	140.708	1.00	31.20
ATOM	14241	CA	THR	H	230	120.307	120.869	141.299	1.00	30.35
ATOM	14242	C	THR	H	230	119.574	121.083	142.608	1.00	29.84
ATOM	14243	O	THR	H	230	118.351	120.919	142.674	1.00	31.35
ATOM	14244	CB	THR	H	230	119.964	122.026	140.376	1.00	29.63
ATOM	14245	OG1	THR	H	230	120.739	121.919	139.176	1.00	32.70
ATOM	14246	CG2	THR	H	230	120.265	123.324	141.044	1.00	28.55
ATOM	14247	N	ILE	H	231	120.325	121.440	143.646	1.00	27.89
ATOM	14248	CA	ILE	H	231	119.735	121.679	144.949	1.00	25.96
ATOM	14249	C	ILE	H	231	118.994	123.015	144.972	1.00	26.88
ATOM	14250	O	ILE	H	231	119.407	124.002	144.333	1.00	23.92
ATOM	14251	CB	ILE	H	231	120.787	121.704	146.064	1.00	26.59
ATOM	14252	CG1	ILE	H	231	121.497	120.355	146.146	1.00	24.17
ATOM	14253	CG2	ILE	H	231	120.114	122.052	147.413	1.00	22.15
ATOM	14254	CD1	ILE	H	231	122.468	120.256	147.309	1.00	21.89
ATOM	14255	N	ILE	H	232	117.894	123.029	145.724	1.00	24.31
ATOM	14256	CA	ILE	H	232	117.062	124.210	145.855	1.00	19.36
ATOM	14257	C	ILE	H	232	117.030	124.693	147.299	1.00	16.92
ATOM	14258	O	ILE	H	232	116.238	124.221	148.097	1.00	15.79

ATOM	14259	CB	ILE	H	232	115.609	123.921	145.421	1.00	18.79
ATOM	14260	CG1	ILE	H	232	115.586	123.189	144.083	1.00	18.36
ATOM	14261	CG2	ILE	H	232	114.844	125.212	145.268	1.00	19.97
ATOM	14262	CD1	ILE	H	232	114.197	122.894	143.596	1.00	16.53
ATOM	14263	N	PRO	H	233	117.921	125.617	147.665	1.00	16.42
ATOM	14264	CA	PRO	H	233	117.847	126.069	149.056	1.00	15.27
ATOM	14265	C	PRO	H	233	116.602	126.913	149.223	1.00	16.60
ATOM	14266	O	PRO	H	233	115.991	127.345	148.246	1.00	11.84
ATOM	14267	CB	PRO	H	233	119.118	126.895	149.233	1.00	16.75
ATOM	14268	CG	PRO	H	233	119.443	127.343	147.824	1.00	16.46
ATOM	14269	CD	PRO	H	233	119.130	126.130	146.997	1.00	15.22
ATOM	14270	N	ALA	H	234	116.233	127.145	150.474	1.00	21.24
ATOM	14271	CA	ALA	H	234	115.058	127.942	150.801	1.00	21.30
ATOM	14272	C	ALA	H	234	115.284	129.369	150.352	1.00	21.52
ATOM	14273	O	ALA	H	234	116.412	129.856	150.381	1.00	21.32
ATOM	14274	CB	ALA	H	234	114.820	127.908	152.283	1.00	19.06
ATOM	14275	N	ASN	H	235	114.219	130.026	149.910	1.00	20.96
ATOM	14276	CA	ASN	H	235	114.313	131.410	149.486	1.00	24.32
ATOM	14277	C	ASN	H	235	115.366	131.681	148.421	1.00	25.06
ATOM	14278	O	ASN	H	235	116.196	132.562	148.590	1.00	29.66
ATOM	14279	CB	ASN	H	235	114.624	132.284	150.698	1.00	24.79
ATOM	14280	CG	ASN	H	235	113.819	131.898	151.913	1.00	25.59
ATOM	14281	OD1	ASN	H	235	114.375	131.459	152.930	1.00	25.68
ATOM	14282	ND2	ASN	H	235	112.496	132.056	151.821	1.00	22.68
ATOM	14283	N	ASN	H	236	115.335	130.938	147.327	1.00	26.94
ATOM	14284	CA	ASN	H	236	116.297	131.114	146.236	1.00	28.30
ATOM	14285	C	ASN	H	236	115.447	130.953	144.989	1.00	27.17
ATOM	14286	O	ASN	H	236	115.369	129.873	144.420	1.00	26.79
ATOM	14287	CB	ASN	H	236	117.372	130.016	146.296	1.00	31.15
ATOM	14288	CG	ASN	H	236	118.445	130.177	145.235	1.00	31.76
ATOM	14289	OD1	ASN	H	236	119.202	131.144	145.253	1.00	35.07
ATOM	14290	ND2	ASN	H	236	118.520	129.226	144.309	1.00	28.90
ATOM	14291	N	THR	H	237	114.798	132.036	144.593	1.00	26.24
ATOM	14292	CA	THR	H	237	113.896	132.036	143.460	1.00	26.78
ATOM	14293	C	THR	H	237	114.474	131.352	142.247	1.00	25.98
ATOM	14294	O	THR	H	237	115.580	131.646	141.844	1.00	26.18
ATOM	14295	CB	THR	H	237	113.510	133.462	143.079	1.00	28.46
ATOM	14296	OG1	THR	H	237	113.262	134.234	144.264	1.00	30.95
ATOM	14297	CG2	THR	H	237	112.259	133.451	142.253	1.00	30.59
ATOM	14298	N	VAL	H	238	113.703	130.434	141.677	1.00	28.18
ATOM	14299	CA	VAL	H	238	114.102	129.675	140.494	1.00	28.33
ATOM	14300	C	VAL	H	238	113.236	130.144	139.327	1.00	28.66
ATOM	14301	O	VAL	H	238	112.012	129.955	139.346	1.00	29.12
ATOM	14302	CB	VAL	H	238	113.874	128.134	140.690	1.00	27.97
ATOM	14303	CG1	VAL	H	238	114.079	127.400	139.383	1.00	28.48
ATOM	14304	CG2	VAL	H	238	114.828	127.580	141.713	1.00	24.26
ATOM	14305	N	SER	H	239	113.863	130.744	138.318	1.00	26.36
ATOM	14306	CA	SER	H	239	113.124	131.221	137.150	1.00	26.76
ATOM	14307	C	SER	H	239	112.587	130.073	136.351	1.00	23.77
ATOM	14308	O	SER	H	239	113.348	129.274	135.848	1.00	27.79
ATOM	14309	CB	SER	H	239	114.019	132.041	136.247	1.00	28.38
ATOM	14310	OG	SER	H	239	114.558	133.135	136.964	1.00	42.03
ATOM	14311	N	LEU	H	240	111.273	129.996	136.225	1.00	23.54
ATOM	14312	CA	LEU	H	240	110.632	128.922	135.479	1.00	24.99
ATOM	14313	C	LEU	H	240	110.403	129.283	134.005	1.00	28.51
ATOM	14314	O	LEU	H	240	109.798	128.511	133.241	1.00	26.53
ATOM	14315	CB	LEU	H	240	109.295	128.585	136.118	1.00	21.04
ATOM	14316	CG	LEU	H	240	109.224	127.192	136.711	1.00	21.60
ATOM	14317	CD1	LEU	H	240	107.804	126.909	137.131	1.00	24.63
ATOM	14318	CD2	LEU	H	240	109.694	126.185	135.687	1.00	20.68
ATOM	14319	N	GLY	H	241	110.900	130.453	133.618	1.00	31.18
ATOM	14320	CA	GLY	H	241	110.743	130.918	132.259	1.00	35.44

ATOM	14321	C	GLY	H	241	109.379	131.548	132.107	1.00	38.50
ATOM	14322	O	GLY	H	241	109.065	132.538	132.751	1.00	42.32
ATOM	14323	N	ALA	H	242	108.557	130.979	131.247	1.00	39.62
ATOM	14324	CA	ALA	H	242	107.226	131.506	131.054	1.00	38.31
ATOM	14325	C	ALA	H	242	106.357	130.295	130.888	1.00	38.33
ATOM	14326	O	ALA	H	242	106.584	129.475	130.004	1.00	35.68
ATOM	14327	CB	ALA	H	242	107.169	132.369	129.813	1.00	39.55
ATOM	14328	N	VAL	H	243	105.381	130.162	131.768	1.00	38.14
ATOM	14329	CA	VAL	H	243	104.481	129.042	131.690	1.00	37.73
ATOM	14330	C	VAL	H	243	103.305	129.451	130.824	1.00	40.09
ATOM	14331	O	VAL	H	243	102.837	130.586	130.901	1.00	39.68
ATOM	14332	CB	VAL	H	243	103.972	128.658	133.058	1.00	36.81
ATOM	14333	CG1	VAL	H	243	103.136	127.395	132.947	1.00	36.13
ATOM	14334	CG2	VAL	H	243	105.133	128.464	133.990	1.00	34.53
ATOM	14335	N	GLY	H	244	102.837	128.517	129.998	1.00	41.41
ATOM	14336	CA	GLY	H	244	101.727	128.785	129.116	1.00	40.56
ATOM	14337	C	GLY	H	244	100.632	127.753	129.226	1.00	42.66
ATOM	14338	O	GLY	H	244	100.303	127.299	130.317	1.00	43.87
ATOM	14339	N	THR	H	245	100.072	127.370	128.085	1.00	46.57
ATOM	14340	CA	THR	H	245	98.973	126.407	128.050	1.00	50.05
ATOM	14341	C	THR	H	245	99.441	124.986	128.336	1.00	50.51
ATOM	14342	O	THR	H	245	98.630	124.115	128.645	1.00	52.82
ATOM	14343	CB	THR	H	245	98.249	126.430	126.674	1.00	51.48
ATOM	14344	OG1	THR	H	245	99.055	125.767	125.690	1.00	59.04
ATOM	14345	CG2	THR	H	245	98.026	127.859	126.214	1.00	46.91
ATOM	14346	N	SER	H	246	100.750	124.761	128.227	1.00	51.42
ATOM	14347	CA	SER	H	246	101.350	123.446	128.464	1.00	48.30
ATOM	14348	C	SER	H	246	102.035	123.423	129.819	1.00	45.13
ATOM	14349	O	SER	H	246	103.107	124.001	129.977	1.00	45.53
ATOM	14350	CB	SER	H	246	102.383	123.133	127.382	1.00	48.28
ATOM	14351	OG	SER	H	246	101.796	123.175	126.098	1.00	52.85
ATOM	14352	N	ALA	H	247	101.423	122.744	130.785	1.00	40.80
ATOM	14353	CA	ALA	H	247	101.977	122.666	132.132	1.00	39.68
ATOM	14354	C	ALA	H	247	103.454	122.281	132.164	1.00	38.31
ATOM	14355	O	ALA	H	247	103.839	121.221	131.675	1.00	39.98
ATOM	14356	CB	ALA	H	247	101.171	121.686	132.974	1.00	37.01
ATOM	14357	N	VAL	H	248	104.277	123.159	132.728	1.00	34.19
ATOM	14358	CA	VAL	H	248	105.697	122.897	132.855	1.00	31.77
ATOM	14359	C	VAL	H	248	105.867	122.135	134.153	1.00	34.59
ATOM	14360	O	VAL	H	248	105.207	122.460	135.141	1.00	37.62
ATOM	14361	CB	VAL	H	248	106.499	124.178	133.015	1.00	28.05
ATOM	14362	CG1	VAL	H	248	107.972	123.846	133.116	1.00	30.22
ATOM	14363	CG2	VAL	H	248	106.234	125.100	131.876	1.00	29.19
ATOM	14364	N	SER	H	249	106.729	121.122	134.170	1.00	34.57
ATOM	14365	CA	SER	H	249	106.969	120.393	135.417	1.00	33.93
ATOM	14366	C	SER	H	249	108.163	121.071	136.036	1.00	32.91
ATOM	14367	O	SER	H	249	109.111	121.429	135.333	1.00	31.63
ATOM	14368	CB	SER	H	249	107.308	118.923	135.183	1.00	34.38
ATOM	14369	OG	SER	H	249	107.507	118.260	136.417	1.00	32.79
ATOM	14370	N	LEU	H	250	108.112	121.270	137.344	1.00	32.03
ATOM	14371	CA	LEU	H	250	109.213	121.923	138.023	1.00	31.41
ATOM	14372	C	LEU	H	250	110.393	120.947	138.092	1.00	30.22
ATOM	14373	O	LEU	H	250	111.526	121.350	138.322	1.00	28.80
ATOM	14374	CB	LEU	H	250	108.779	122.361	139.429	1.00	33.27
ATOM	14375	CG	LEU	H	250	107.441	123.105	139.615	1.00	33.67
ATOM	14376	CD1	LEU	H	250	107.334	123.569	141.079	1.00	29.10
ATOM	14377	CD2	LEU	H	250	107.337	124.297	138.655	1.00	26.90
ATOM	14378	N	GLY	H	251	110.108	119.664	137.881	1.00	27.48
ATOM	14379	CA	GLY	H	251	111.138	118.647	137.914	1.00	27.56
ATOM	14380	C	GLY	H	251	111.772	118.478	139.274	1.00	28.85
ATOM	14381	O	GLY	H	251	112.992	118.577	139.423	1.00	31.77
ATOM	14382	N	LEU	H	252	110.950	118.185	140.269	1.00	27.30

ATOM	14383	CA	LEU	H	252	111.449	118.047	141.629	1.00	27.16
ATOM	14384	C	LEU	H	252	111.572	116.622	142.143	1.00	28.78
ATOM	14385	O	LEU	H	252	110.804	115.739	141.774	1.00	27.22
ATOM	14386	CB	LEU	H	252	110.539	118.799	142.587	1.00	23.73
ATOM	14387	CG	LEU	H	252	110.129	120.196	142.171	1.00	22.56
ATOM	14388	CD1	LEU	H	252	108.986	120.628	143.089	1.00	23.99
ATOM	14389	CD2	LEU	H	252	111.310	121.131	142.219	1.00	15.65
ATOM	14390	N	THR	H	253	112.540	116.419	143.029	1.00	31.15
ATOM	14391	CA	THR	H	253	112.758	115.121	143.649	1.00	28.62
ATOM	14392	C	THR	H	253	112.990	115.370	145.128	1.00	28.89
ATOM	14393	O	THR	H	253	113.820	116.211	145.499	1.00	27.71
ATOM	14394	CB	THR	H	253	114.004	114.423	143.099	1.00	26.53
ATOM	14395	OG1	THR	H	253	113.922	114.351	141.681	1.00	27.59
ATOM	14396	CG2	THR	H	253	114.102	113.035	143.637	1.00	26.13
ATOM	14397	N	ALA	H	254	112.236	114.657	145.959	1.00	25.81
ATOM	14398	CA	ALA	H	254	112.381	114.751	147.402	1.00	24.69
ATOM	14399	C	ALA	H	254	113.550	113.828	147.720	1.00	26.32
ATOM	14400	O	ALA	H	254	113.527	112.642	147.384	1.00	30.16
ATOM	14401	CB	ALA	H	254	111.114	114.253	148.097	1.00	20.85
ATOM	14402	N	ASN	H	255	114.583	114.367	148.346	1.00	23.91
ATOM	14403	CA	ASN	H	255	115.745	113.567	148.687	1.00	21.86
ATOM	14404	C	ASN	H	255	115.990	113.609	150.152	1.00	23.08
ATOM	14405	O	ASN	H	255	115.722	114.623	150.795	1.00	27.70
ATOM	14406	CB	ASN	H	255	117.010	114.119	148.043	1.00	19.69
ATOM	14407	CG	ASN	H	255	116.871	114.312	146.585	1.00	20.42
ATOM	14408	OD1	ASN	H	255	117.859	114.440	145.882	1.00	23.76
ATOM	14409	ND2	ASN	H	255	115.640	114.343	146.105	1.00	21.27
ATOM	14410	N	TYR	H	256	116.519	112.516	150.688	1.00	24.79
ATOM	14411	CA	TYR	H	256	116.883	112.499	152.096	1.00	22.43
ATOM	14412	C	TYR	H	256	118.302	113.045	152.110	1.00	24.12
ATOM	14413	O	TYR	H	256	119.122	112.732	151.227	1.00	22.65
ATOM	14414	CB	TYR	H	256	116.879	111.091	152.680	1.00	18.57
ATOM	14415	CG	TYR	H	256	115.507	110.505	152.902	1.00	19.42
ATOM	14416	CD1	TYR	H	256	114.856	110.659	154.120	1.00	22.52
ATOM	14417	CD2	TYR	H	256	114.895	109.738	151.922	1.00	18.94
ATOM	14418	CE1	TYR	H	256	113.643	110.056	154.360	1.00	25.92
ATOM	14419	CE2	TYR	H	256	113.688	109.126	152.146	1.00	23.01
ATOM	14420	CZ	TYR	H	256	113.061	109.284	153.370	1.00	27.93
ATOM	14421	OH	TYR	H	256	111.862	108.646	153.616	1.00	32.92
ATOM	14422	N	ALA	H	257	118.574	113.903	153.082	1.00	24.21
ATOM	14423	CA	ALA	H	257	119.897	114.472	153.234	1.00	25.92
ATOM	14424	C	ALA	H	257	120.086	114.391	154.722	1.00	29.95
ATOM	14425	O	ALA	H	257	119.101	114.331	155.465	1.00	30.01
ATOM	14426	CB	ALA	H	257	119.923	115.899	152.770	1.00	22.87
ATOM	14427	N	ARG	H	258	121.336	114.361	155.160	1.00	32.87
ATOM	14428	CA	ARG	H	258	121.605	114.264	156.576	1.00	38.96
ATOM	14429	C	ARG	H	258	121.926	115.623	157.152	1.00	44.56
ATOM	14430	O	ARG	H	258	122.489	116.482	156.461	1.00	47.24
ATOM	14431	CB	ARG	H	258	122.771	113.323	156.821	1.00	39.02
ATOM	14432	CG	ARG	H	258	122.494	111.901	156.472	1.00	38.34
ATOM	14433	CD	ARG	H	258	123.790	111.149	156.455	1.00	43.31
ATOM	14434	NE	ARG	H	258	124.493	111.273	157.725	1.00	49.89
ATOM	14435	CZ	ARG	H	258	125.723	110.821	157.940	1.00	51.27
ATOM	14436	NH1	ARG	H	258	126.388	110.218	156.962	1.00	50.77
ATOM	14437	NH2	ARG	H	258	126.282	110.961	159.136	1.00	52.58
ATOM	14438	N	THR	H	259	121.569	115.800	158.423	1.00	48.64
ATOM	14439	CA	THR	H	259	121.796	117.039	159.148	1.00	52.45
ATOM	14440	C	THR	H	259	122.943	116.823	160.111	1.00	55.14
ATOM	14441	O	THR	H	259	124.068	117.252	159.856	1.00	56.27
ATOM	14442	CB	THR	H	259	120.549	117.430	159.939	1.00	54.51
ATOM	14443	OG1	THR	H	259	120.104	116.310	160.714	1.00	54.72
ATOM	14444	CG2	THR	H	259	119.432	117.840	158.996	1.00	57.40

ATOM	14445	N	GLY H 260	122.650	116.144	161.217	1.00	60.51
ATOM	14446	CA	GLY H 260	123.662	115.855	162.224	1.00	63.96
ATOM	14447	C	GLY H 260	124.259	114.467	162.052	1.00	66.20
ATOM	14448	O	GLY H 260	123.677	113.617	161.362	1.00	66.79
ATOM	14449	N	GLY H 261	125.415	114.236	162.678	1.00	66.64
ATOM	14450	CA	GLY H 261	126.085	112.946	162.578	1.00	67.52
ATOM	14451	C	GLY H 261	125.579	111.810	163.469	1.00	67.44
ATOM	14452	O	GLY H 261	126.276	111.377	164.393	1.00	69.00
ATOM	14453	N	GLN H 262	124.376	111.316	163.190	1.00	64.81
ATOM	14454	CA	GLN H 262	123.794	110.221	163.958	1.00	62.00
ATOM	14455	C	GLN H 262	122.428	109.827	163.418	1.00	59.52
ATOM	14456	O	GLN H 262	121.420	109.859	164.136	1.00	59.88
ATOM	14457	CB	GLN H 262	123.659	110.590	165.441	1.00	65.28
ATOM	14458	CG	GLN H 262	123.134	109.437	166.315	1.00	69.41
ATOM	14459	CD	GLN H 262	123.970	108.153	166.187	1.00	70.82
ATOM	14460	OE1	GLN H 262	123.574	107.087	166.669	1.00	69.05
ATOM	14461	NE2	GLN H 262	125.133	108.258	165.541	1.00	72.55
ATOM	14462	N	VAL H 263	122.392	109.457	162.146	1.00	55.06
ATOM	14463	CA	VAL H 263	121.143	109.054	161.540	1.00	51.61
ATOM	14464	C	VAL H 263	120.525	108.023	162.474	1.00	50.60
ATOM	14465	O	VAL H 263	121.231	107.220	163.059	1.00	52.84
ATOM	14466	CB	VAL H 263	121.394	108.454	160.163	1.00	50.30
ATOM	14467	CG1	VAL H 263	120.082	108.132	159.482	1.00	53.42
ATOM	14468	CG2	VAL H 263	122.188	109.430	159.329	1.00	52.12
ATOM	14469	N	THR H 264	119.210	108.043	162.624	1.00	49.51
ATOM	14470	CA	THR H 264	118.567	107.114	163.527	1.00	47.95
ATOM	14471	C	THR H 264	117.160	106.710	163.137	1.00	51.50
ATOM	14472	O	THR H 264	116.385	107.516	162.643	1.00	53.66
ATOM	14473	CB	THR H 264	118.526	107.709	164.903	1.00	45.27
ATOM	14474	OG1	THR H 264	119.869	107.940	165.335	1.00	37.73
ATOM	14475	CG2	THR H 264	117.795	106.790	165.860	1.00	43.02
ATOM	14476	N	ALA H 265	116.840	105.449	163.386	1.00	54.65
ATOM	14477	CA	ALA H 265	115.538	104.885	163.071	1.00	57.07
ATOM	14478	C	ALA H 265	114.402	105.833	163.396	1.00	59.40
ATOM	14479	O	ALA H 265	114.517	106.672	164.289	1.00	60.01
ATOM	14480	CB	ALA H 265	115.351	103.583	163.832	1.00	60.60
ATOM	14481	N	GLY H 266	113.301	105.687	162.667	1.00	62.20
ATOM	14482	CA	GLY H 266	112.141	106.534	162.898	1.00	64.91
ATOM	14483	C	GLY H 266	111.481	107.077	161.639	1.00	64.89
ATOM	14484	O	GLY H 266	111.915	106.796	160.516	1.00	63.64
ATOM	14485	N	ASN H 267	110.424	107.862	161.826	1.00	65.28
ATOM	14486	CA	ASN H 267	109.728	108.446	160.692	1.00	64.76
ATOM	14487	C	ASN H 267	110.273	109.817	160.329	1.00	62.67
ATOM	14488	O	ASN H 267	110.749	110.568	161.186	1.00	59.49
ATOM	14489	CB	ASN H 267	108.229	108.522	160.961	1.00	65.98
ATOM	14490	CG	ASN H 267	107.610	107.157	161.103	1.00	68.03
ATOM	14491	OD1	ASN H 267	106.407	106.977	160.909	1.00	69.53
ATOM	14492	ND2	ASN H 267	108.434	106.179	161.450	1.00	68.73
ATOM	14493	N	VAL H 268	110.206	110.111	159.035	1.00	61.41
ATOM	14494	CA	VAL H 268	110.689	111.361	158.461	1.00	59.57
ATOM	14495	C	VAL H 268	109.590	111.987	157.608	1.00	58.43
ATOM	14496	O	VAL H 268	109.288	111.508	156.513	1.00	55.46
ATOM	14497	CB	VAL H 268	111.933	111.095	157.587	1.00	59.61
ATOM	14498	CG1	VAL H 268	112.335	112.341	156.840	1.00	60.18
ATOM	14499	CG2	VAL H 268	113.076	110.610	158.461	1.00	60.70
ATOM	14500	N	GLN H 269	108.981	113.045	158.132	1.00	57.45
ATOM	14501	CA	GLN H 269	107.916	113.752	157.430	1.00	57.99
ATOM	14502	C	GLN H 269	108.283	115.223	157.345	1.00	56.79
ATOM	14503	O	GLN H 269	108.888	115.763	158.272	1.00	57.73
ATOM	14504	CB	GLN H 269	106.590	113.590	158.171	1.00	57.83
ATOM	14505	CG	GLN H 269	105.834	112.337	157.797	1.00	60.53
ATOM	14506	CD	GLN H 269	104.730	112.031	158.777	1.00	63.85

ATOM	14507	OE1	GLN	H	269	103.958	112.915	159.156	1.00	65.39
ATOM	14508	NE2	GLN	H	269	104.643	110.772	159.198	1.00	64.97
ATOM	14509	N	SER	H	270	107.919	115.876	156.245	1.00	54.05
ATOM	14510	CA	SER	H	270	108.260	117.283	156.086	1.00	51.32
ATOM	14511	C	SER	H	270	107.164	118.132	155.439	1.00	49.59
ATOM	14512	O	SER	H	270	106.295	117.628	154.715	1.00	49.37
ATOM	14513	CB	SER	H	270	109.559	117.398	155.280	1.00	51.13
ATOM	14514	OG	SER	H	270	110.183	118.652	155.483	1.00	49.56
ATOM	14515	N	ILE	H	271	107.218	119.430	155.717	1.00	46.40
ATOM	14516	CA	ILE	H	271	106.251	120.376	155.175	1.00	45.77
ATOM	14517	C	ILE	H	271	106.973	121.552	154.534	1.00	42.08
ATOM	14518	O	ILE	H	271	107.666	122.306	155.208	1.00	39.48
ATOM	14519	CB	ILE	H	271	105.325	120.897	156.282	1.00	49.15
ATOM	14520	CG1	ILE	H	271	106.163	121.205	157.541	1.00	51.45
ATOM	14521	CG2	ILE	H	271	104.194	119.889	156.519	1.00	49.38
ATOM	14522	CD1	ILE	H	271	105.392	121.816	158.716	1.00	46.85
ATOM	14523	N	ILE	H	272	106.805	121.700	153.226	1.00	39.38
ATOM	14524	CA	ILE	H	272	107.461	122.770	152.494	1.00	36.99
ATOM	14525	C	ILE	H	272	106.504	123.673	151.756	1.00	34.33
ATOM	14526	O	ILE	H	272	105.552	123.218	151.133	1.00	34.00
ATOM	14527	CB	ILE	H	272	108.432	122.218	151.443	1.00	39.83
ATOM	14528	CG1	ILE	H	272	109.435	121.288	152.104	1.00	42.83
ATOM	14529	CG2	ILE	H	272	109.147	123.356	150.746	1.00	43.40
ATOM	14530	CD1	ILE	H	272	110.051	121.877	153.328	1.00	45.07
ATOM	14531	N	GLY	H	273	106.781	124.963	151.800	1.00	32.06
ATOM	14532	CA	GLY	H	273	105.925	125.887	151.096	1.00	32.29
ATOM	14533	C	GLY	H	273	106.565	126.258	149.786	1.00	30.68
ATOM	14534	O	GLY	H	273	107.733	126.644	149.753	1.00	33.35
ATOM	14535	N	VAL	H	274	105.822	126.101	148.698	1.00	28.70
ATOM	14536	CA	VAL	H	274	106.332	126.474	147.383	1.00	25.67
ATOM	14537	C	VAL	H	274	105.582	127.772	147.038	1.00	28.93
ATOM	14538	O	VAL	H	274	104.334	127.820	147.046	1.00	27.67
ATOM	14539	CB	VAL	H	274	106.038	125.388	146.329	1.00	22.56
ATOM	14540	CG1	VAL	H	274	106.954	125.573	145.135	1.00	11.02
ATOM	14541	CG2	VAL	H	274	106.182	124.005	146.940	1.00	15.78
ATOM	14542	N	THR	H	275	106.343	128.832	146.774	1.00	28.62
ATOM	14543	CA	THR	H	275	105.753	130.131	146.475	1.00	30.76
ATOM	14544	C	THR	H	275	106.042	130.567	145.058	1.00	29.59
ATOM	14545	O	THR	H	275	107.197	130.787	144.685	1.00	28.86
ATOM	14546	CB	THR	H	275	106.287	131.230	147.426	1.00	34.15
ATOM	14547	OG1	THR	H	275	106.032	130.864	148.789	1.00	42.15
ATOM	14548	CG2	THR	H	275	105.609	132.559	147.134	1.00	39.58
ATOM	14549	N	PHE	H	276	104.976	130.701	144.278	1.00	26.92
ATOM	14550	CA	PHE	H	276	105.090	131.122	142.899	1.00	24.06
ATOM	14551	C	PHE	H	276	105.035	132.626	142.829	1.00	21.33
ATOM	14552	O	PHE	H	276	104.111	133.238	143.327	1.00	24.31
ATOM	14553	CB	PHE	H	276	103.969	130.498	142.075	1.00	21.41
ATOM	14554	CG	PHE	H	276	104.143	129.022	141.859	1.00	22.67
ATOM	14555	CD1	PHE	H	276	103.864	128.123	142.871	1.00	22.08
ATOM	14556	CD2	PHE	H	276	104.604	128.541	140.642	1.00	23.92
ATOM	14557	CE1	PHE	H	276	104.032	126.767	142.683	1.00	24.99
ATOM	14558	CE2	PHE	H	276	104.780	127.185	140.439	1.00	25.79
ATOM	14559	CZ	PHE	H	276	104.491	126.291	141.462	1.00	27.83
ATOM	14560	N	VAL	H	277	106.039	133.224	142.217	1.00	19.99
ATOM	14561	CA	VAL	H	277	106.090	134.673	142.107	1.00	20.95
ATOM	14562	C	VAL	H	277	105.663	135.158	140.723	1.00	20.44
ATOM	14563	O	VAL	H	277	106.225	134.739	139.714	1.00	22.02
ATOM	14564	CB	VAL	H	277	107.515	135.182	142.379	1.00	23.69
ATOM	14565	CG1	VAL	H	277	107.487	136.671	142.658	1.00	16.18
ATOM	14566	CG2	VAL	H	277	108.132	134.408	143.537	1.00	21.53
ATOM	14567	N	TYR	H	278	104.690	136.061	140.683	1.00	18.63
ATOM	14568	CA	TYR	H	278	104.190	136.609	139.426	1.00	16.88

ATOM	14569	C	TYR	H	278	104.852	137.912	139.034	1.00	18.58
ATOM	14570	O	TYR	H	278	105.220	138.710	139.895	1.00	19.68
ATOM	14571	CB	TYR	H	278	102.691	136.826	139.524	1.00	17.85
ATOM	14572	CG	TYR	H	278	101.948	135.534	139.699	1.00	19.62
ATOM	14573	CD1	TYR	H	278	102.026	134.822	140.888	1.00	18.26
ATOM	14574	CD2	TYR	H	278	101.260	134.965	138.635	1.00	18.11
ATOM	14575	CE1	TYR	H	278	101.452	133.574	141.004	1.00	22.40
ATOM	14576	CE2	TYR	H	278	100.683	133.713	138.739	1.00	17.91
ATOM	14577	CZ	TYR	H	278	100.785	133.016	139.918	1.00	21.06
ATOM	14578	OH	TYR	H	278	100.270	131.738	139.997	1.00	23.71
ATOM	14579	N	GLN	H	279	105.005	138.136	137.732	1.00	21.15
ATOM	14580	CA	GLN	H	279	105.623	139.371	137.261	1.00	22.67
ATOM	14581	C	GLN	H	279	104.610	140.491	137.050	1.00	23.90
ATOM	14582	O	GLN	H	279	104.942	141.640	137.403	1.00	23.87
ATOM	14583	CB	GLN	H	279	106.379	139.152	135.959	1.00	25.01
ATOM	14584	CG	GLN	H	279	107.155	140.390	135.564	1.00	32.74
ATOM	14585	CD	GLN	H	279	107.861	140.297	134.221	1.00	39.42
ATOM	14586	OE1	GLN	H	279	108.777	141.089	133.951	1.00	39.46
ATOM	14587	NE2	GLN	H	279	107.439	139.351	133.368	1.00	37.41
ATOM	14588	OXT	GLN	H	279	103.513	140.219	136.514	1.00	24.99
ATOM	14589	N	GLY	I	1	0.658	128.274	195.732	1.00	115.49
ATOM	14590	CA	GLY	I	1	1.819	128.067	194.838	1.00	115.02
ATOM	14591	C	GLY	I	1	3.130	128.404	195.515	1.00	115.71
ATOM	14592	O	GLY	I	1	3.370	129.552	195.895	1.00	114.88
ATOM	14593	N	VAL	I	2	3.979	127.392	195.675	1.00	116.72
ATOM	14594	CA	VAL	I	2	5.286	127.573	196.301	1.00	117.39
ATOM	14595	C	VAL	I	2	6.365	127.376	195.227	1.00	117.57
ATOM	14596	O	VAL	I	2	6.586	126.262	194.739	1.00	116.69
ATOM	14597	CB	VAL	I	2	5.502	126.559	197.472	1.00	117.74
ATOM	14598	CG1	VAL	I	2	6.771	126.906	198.246	1.00	116.69
ATOM	14599	CG2	VAL	I	2	4.298	126.571	198.410	1.00	116.71
ATOM	14600	N	ALA	I	3	7.021	128.470	194.854	1.00	118.26
ATOM	14601	CA	ALA	I	3	8.061	128.435	193.830	1.00	119.37
ATOM	14602	C	ALA	I	3	9.290	129.248	194.238	1.00	119.79
ATOM	14603	O	ALA	I	3	9.450	130.395	193.815	1.00	120.00
ATOM	14604	CB	ALA	I	3	7.500	128.964	192.512	1.00	118.70
ATOM	14605	N	LEU	I	4	10.156	128.654	195.054	1.00	119.99
ATOM	14606	CA	LEU	I	4	11.362	129.340	195.509	1.00	119.40
ATOM	14607	C	LEU	I	4	12.086	130.031	194.366	1.00	118.92
ATOM	14608	O	LEU	I	4	12.427	129.399	193.367	1.00	118.18
ATOM	14609	CB	LEU	I	4	12.323	128.360	196.193	1.00	119.51
ATOM	14610	CG	LEU	I	4	12.079	128.048	197.674	1.00	119.81
ATOM	14611	CD1	LEU	I	4	13.144	127.085	198.179	1.00	118.55
ATOM	14612	CD2	LEU	I	4	12.112	129.340	198.478	1.00	119.86
ATOM	14613	N	GLY	I	5	12.312	131.334	194.521	1.00	118.79
ATOM	14614	CA	GLY	I	5	13.009	132.091	193.499	1.00	118.32
ATOM	14615	C	GLY	I	5	14.299	131.378	193.160	1.00	117.79
ATOM	14616	O	GLY	I	5	14.872	131.571	192.085	1.00	117.38
ATOM	14617	N	ALA	I	6	14.748	130.546	194.096	1.00	117.03
ATOM	14618	CA	ALA	I	6	15.965	129.763	193.930	1.00	116.33
ATOM	14619	C	ALA	I	6	15.670	128.280	194.145	1.00	115.26
ATOM	14620	O	ALA	I	6	15.010	127.892	195.113	1.00	115.26
ATOM	14621	CB	ALA	I	6	17.034	130.229	194.911	1.00	116.35
ATOM	14622	N	THR	I	7	16.170	127.460	193.230	1.00	113.27
ATOM	14623	CA	THR	I	7	15.981	126.020	193.287	1.00	110.78
ATOM	14624	C	THR	I	7	17.298	125.316	193.614	1.00	109.63
ATOM	14625	O	THR	I	7	17.338	124.105	193.830	1.00	108.70
ATOM	14626	CB	THR	I	7	15.452	125.508	191.941	1.00	110.21
ATOM	14627	OG1	THR	I	7	16.193	126.118	190.875	1.00	109.54
ATOM	14628	CG2	THR	I	7	13.984	125.853	191.787	1.00	109.47
ATOM	14629	N	ARG	I	8	18.372	126.096	193.662	1.00	108.73
ATOM	14630	CA	ARG	I	8	19.701	125.572	193.939	1.00	106.85

ATOM	14631	C	ARG	I	8	20.642	126.735	194.236	1.00106.62
ATOM	14632	O	ARG	I	8	20.935	127.542	193.355	1.00107.52
ATOM	14633	CB	ARG	I	8	20.190	124.782	192.724	1.00104.87
ATOM	14634	CG	ARG	I	8	20.118	125.563	191.419	1.00103.53
ATOM	14635	CD	ARG	I	8	19.824	124.677	190.211	1.00101.71
ATOM	14636	NE	ARG	I	8	20.856	123.673	189.988	1.00100.51
ATOM	14637	CZ	ARG	I	8	20.954	122.532	190.661	1.00101.05
ATOM	14638	NH1	ARG	I	8	20.063	122.227	191.598	1.00 99.62
ATOM	14639	NH2	ARG	I	8	21.939	121.686	190.384	1.00101.54
ATOM	14640	N	VAL	I	9	21.111	126.815	195.479	1.00106.37
ATOM	14641	CA	VAL	I	9	22.009	127.888	195.908	1.00106.26
ATOM	14642	C	VAL	I	9	23.458	127.437	196.115	1.00107.08
ATOM	14643	O	VAL	I	9	23.716	126.295	196.494	1.00107.14
ATOM	14644	CB	VAL	I	9	21.508	128.521	197.227	1.00105.08
ATOM	14645	CG1	VAL	I	9	22.400	129.688	197.625	1.00103.96
ATOM	14646	CG2	VAL	I	9	20.069	128.974	197.070	1.00105.11
ATOM	14647	N	ILE	I	10	24.395	128.348	195.858	1.00108.05
ATOM	14648	CA	ILE	I	10	25.825	128.085	196.029	1.00108.78
ATOM	14649	C	ILE	I	10	26.341	128.938	197.187	1.00110.37
ATOM	14650	O	ILE	I	10	26.279	130.168	197.139	1.00110.63
ATOM	14651	CB	ILE	I	10	26.625	128.442	194.753	1.00107.53
ATOM	14652	CG1	ILE	I	10	26.232	127.502	193.611	1.00106.96
ATOM	14653	CG2	ILE	I	10	28.123	128.380	195.033	1.00105.83
ATOM	14654	CD1	ILE	I	10	26.567	126.048	193.858	1.00106.78
ATOM	14655	N	TYR	I	11	26.852	128.284	198.223	1.00111.65
ATOM	14656	CA	TYR	I	11	27.354	129.000	199.390	1.00113.92
ATOM	14657	C	TYR	I	11	28.863	129.207	199.340	1.00114.90
ATOM	14658	O	TYR	I	11	29.630	128.246	199.418	1.00114.92
ATOM	14659	CB	TYR	I	11	26.998	128.229	200.666	1.00114.68
ATOM	14660	CG	TYR	I	11	27.092	129.041	201.944	1.00114.58
ATOM	14661	CD1	TYR	I	11	26.064	129.901	202.324	1.00113.57
ATOM	14662	CD2	TYR	I	11	28.204	128.936	202.781	1.00116.15
ATOM	14663	CE1	TYR	I	11	26.137	130.636	203.506	1.00115.01
ATOM	14664	CE2	TYR	I	11	28.289	129.667	203.967	1.00116.73
ATOM	14665	CZ	TYR	I	11	27.251	130.514	204.323	1.00116.37
ATOM	14666	OH	TYR	I	11	27.320	131.225	205.499	1.00116.34
ATOM	14667	N	PRO	I	12	29.311	130.466	199.187	1.00116.44
ATOM	14668	CA	PRO	I	12	30.750	130.755	199.142	1.00118.21
ATOM	14669	C	PRO	I	12	31.406	130.427	200.497	1.00119.57
ATOM	14670	O	PRO	I	12	30.713	130.119	201.472	1.00120.07
ATOM	14671	CB	PRO	I	12	30.789	132.250	198.821	1.00117.12
ATOM	14672	CG	PRO	I	12	29.562	132.439	197.987	1.00115.90
ATOM	14673	CD	PRO	I	12	28.532	131.638	198.747	1.00116.01
ATOM	14674	N	ALA	I	13	32.734	130.488	200.559	1.00119.77
ATOM	14675	CA	ALA	I	13	33.437	130.188	201.802	1.00119.98
ATOM	14676	C	ALA	I	13	33.732	131.458	202.592	1.00120.38
ATOM	14677	O	ALA	I	13	33.907	132.532	202.015	1.00120.30
ATOM	14678	CB	ALA	I	13	34.730	129.447	201.502	1.00121.06
ATOM	14679	N	GLY	I	14	33.788	131.329	203.914	1.00120.23
ATOM	14680	CA	GLY	I	14	34.062	132.478	204.756	1.00120.30
ATOM	14681	C	GLY	I	14	32.956	133.513	204.688	1.00120.66
ATOM	14682	O	GLY	I	14	33.169	134.682	205.011	1.00120.27
ATOM	14683	N	GLN	I	15	31.772	133.081	204.262	1.00121.12
ATOM	14684	CA	GLN	I	15	30.617	133.967	204.151	1.00121.31
ATOM	14685	C	GLN	I	15	29.696	133.845	205.353	1.00121.17
ATOM	14686	O	GLN	I	15	29.630	132.797	205.993	1.00120.55
ATOM	14687	CB	GLN	I	15	29.829	133.659	202.874	1.00121.66
ATOM	14688	CG	GLN	I	15	30.217	134.522	201.689	1.00122.08
ATOM	14689	CD	GLN	I	15	29.790	135.967	201.864	1.00122.64
ATOM	14690	OE1	GLN	I	15	30.067	136.592	202.891	1.00123.08
ATOM	14691	NE2	GLN	I	15	29.116	136.509	200.856	1.00122.40
ATOM	14692	N	LYS	I	16	28.984	134.927	205.651	1.00121.48

ATOM	14693	CA	LYS	I	16	28.059	134.951	206.778	1.00121.98
ATOM	14694	C	LYS	I	16	26.663	134.518	206.343	1.00122.59
ATOM	14695	O	LYS	I	16	26.237	133.394	206.616	1.00122.85
ATOM	14696	CB	LYS	I	16	28.004	136.359	207.383	1.00121.19
ATOM	14697	CG	LYS	I	16	26.978	136.537	208.496	1.00119.48
ATOM	14698	CD	LYS	I	16	26.927	137.988	208.955	1.00118.91
ATOM	14699	CE	LYS	I	16	25.810	138.222	209.956	1.00119.23
ATOM	14700	NZ	LYS	I	16	25.763	139.640	210.413	1.00119.94
ATOM	14701	N	GLN	I	17	25.957	135.410	205.655	1.00123.06
ATOM	14702	CA	GLN	I	17	24.605	135.115	205.198	1.00123.09
ATOM	14703	C	GLN	I	17	24.454	135.130	203.681	1.00122.56
ATOM	14704	O	GLN	I	17	25.137	135.875	202.981	1.00122.65
ATOM	14705	CB	GLN	I	17	23.610	136.107	205.818	1.00123.82
ATOM	14706	CG	GLN	I	17	23.930	137.578	205.567	1.00123.58
ATOM	14707	CD	GLN	I	17	22.836	138.511	206.058	1.00123.29
ATOM	14708	OE1	GLN	I	17	22.405	138.432	207.209	1.00123.29
ATOM	14709	NE2	GLN	I	17	22.384	139.405	205.184	1.00122.66
ATOM	14710	N	VAL	I	18	23.551	134.289	203.188	1.00122.18
ATOM	14711	CA	VAL	I	18	23.256	134.189	201.764	1.00122.24
ATOM	14712	C	VAL	I	18	21.741	134.293	201.614	1.00122.91
ATOM	14713	O	VAL	I	18	21.026	133.299	201.747	1.00123.50
ATOM	14714	CB	VAL	I	18	23.738	132.839	201.180	1.00121.53
ATOM	14715	CG1	VAL	I	18	23.291	132.699	199.733	1.00120.38
ATOM	14716	CG2	VAL	I	18	25.246	132.759	201.260	1.00121.93
ATOM	14717	N	GLN	I	19	21.256	135.503	201.347	1.00122.74
ATOM	14718	CA	GLN	I	19	19.824	135.743	201.199	1.00122.08
ATOM	14719	C	GLN	I	19	19.163	134.991	200.043	1.00122.41
ATOM	14720	O	GLN	I	19	19.827	134.486	199.134	1.00122.35
ATOM	14721	CB	GLN	I	19	19.546	137.241	201.031	1.00120.99
ATOM	14722	CG	GLN	I	19	19.997	138.111	202.189	1.00120.81
ATOM	14723	CD	GLN	I	19	19.529	139.550	202.049	1.00121.05
ATOM	14724	OE1	GLN	I	19	19.900	140.418	202.844	1.00121.02
ATOM	14725	NE2	GLN	I	19	18.705	139.810	201.037	1.00120.27
ATOM	14726	N	LEU	I	20	17.837	134.930	200.099	1.00122.66
ATOM	14727	CA	LEU	I	20	17.028	134.275	199.082	1.00122.63
ATOM	14728	C	LEU	I	20	15.560	134.597	199.318	1.00122.56
ATOM	14729	O	LEU	I	20	15.059	134.482	200.435	1.00121.56
ATOM	14730	CB	LEU	I	20	17.229	132.760	199.108	1.00123.29
ATOM	14731	CG	LEU	I	20	16.237	132.001	198.220	1.00124.28
ATOM	14732	CD1	LEU	I	20	16.221	132.620	196.829	1.00124.38
ATOM	14733	CD2	LEU	I	20	16.608	130.526	198.164	1.00124.89
ATOM	14734	N	ALA	I	21	14.874	134.993	198.253	1.00123.13
ATOM	14735	CA	ALA	I	21	13.467	135.351	198.339	1.00123.73
ATOM	14736	C	ALA	I	21	12.538	134.150	198.462	1.00124.10
ATOM	14737	O	ALA	I	21	12.865	133.038	198.040	1.00123.10
ATOM	14738	CB	ALA	I	21	13.074	136.187	197.130	1.00123.87
ATOM	14739	N	VAL	I	22	11.374	134.399	199.053	1.00124.58
ATOM	14740	CA	VAL	I	22	10.349	133.382	199.242	1.00124.94
ATOM	14741	C	VAL	I	22	9.016	134.037	198.896	1.00125.59
ATOM	14742	O	VAL	I	22	8.502	134.853	199.662	1.00125.45
ATOM	14743	CB	VAL	I	22	10.303	132.888	200.706	1.00124.70
ATOM	14744	CG1	VAL	I	22	9.322	131.729	200.835	1.00124.29
ATOM	14745	CG2	VAL	I	22	11.689	132.464	201.156	1.00123.90
ATOM	14746	N	THR	I	23	8.470	133.690	197.734	1.00126.42
ATOM	14747	CA	THR	I	23	7.200	134.252	197.282	1.00127.54
ATOM	14748	C	THR	I	23	6.047	133.283	197.514	1.00129.07
ATOM	14749	O	THR	I	23	6.254	132.089	197.722	1.00129.79
ATOM	14750	CB	THR	I	23	7.241	134.591	195.778	1.00126.04
ATOM	14751	OG1	THR	I	23	8.354	135.451	195.511	1.00124.65
ATOM	14752	CG2	THR	I	23	5.959	135.290	195.355	1.00124.58
ATOM	14753	N	ASN	I	24	4.830	133.806	197.479	1.00130.74
ATOM	14754	CA	ASN	I	24	3.646	132.986	197.667	1.00133.12

ATOM	14755	C	ASN	I	24	2.700	133.255	196.509	1.00134.69
ATOM	14756	O	ASN	I	24	2.000	134.263	196.497	1.00134.39
ATOM	14757	CB	ASN	I	24	2.964	133.333	198.991	1.00133.42
ATOM	14758	CG	ASN	I	24	1.739	132.482	199.250	1.00133.93
ATOM	14759	OD1	ASN	I	24	1.804	131.251	199.218	1.00134.86
ATOM	14760	ND2	ASN	I	24	0.613	133.132	199.512	1.00133.10
ATOM	14761	N	ASN	I	25	2.685	132.354	195.531	1.00136.68
ATOM	14762	CA	ASN	I	25	1.824	132.521	194.366	1.00138.67
ATOM	14763	C	ASN	I	25	0.339	132.425	194.725	1.00140.58
ATOM	14764	O	ASN	I	25	-0.527	132.700	193.891	1.00140.86
ATOM	14765	CB	ASN	I	25	2.165	131.480	193.296	1.00136.90
ATOM	14766	CG	ASN	I	25	1.541	131.804	191.956	1.00135.22
ATOM	14767	OD1	ASN	I	25	1.882	132.807	191.330	1.00133.82
ATOM	14768	ND2	ASN	I	25	0.615	130.961	191.512	1.00134.33
ATOM	14769	N	ASP	I	26	0.052	132.027	195.964	1.00142.49
ATOM	14770	CA	ASP	I	26	-1.327	131.912	196.439	1.00143.73
ATOM	14771	C	ASP	I	26	-1.853	133.325	196.691	1.00143.96
ATOM	14772	O	ASP	I	26	-1.379	134.007	197.599	1.00144.52
ATOM	14773	CB	ASP	I	26	-1.387	131.107	197.749	1.00144.48
ATOM	14774	CG	ASP	I	26	-0.929	129.660	197.583	1.00145.18
ATOM	14775	OD1	ASP	I	26	-1.604	128.894	196.859	1.00145.44
ATOM	14776	OD2	ASP	I	26	0.106	129.287	198.181	1.00144.63
ATOM	14777	N	GLU	I	27	-2.822	133.761	195.889	1.00143.93
ATOM	14778	CA	GLU	I	27	-3.395	135.100	196.034	1.00143.76
ATOM	14779	C	GLU	I	27	-3.704	135.465	197.485	1.00143.95
ATOM	14780	O	GLU	I	27	-3.078	136.362	198.059	1.00143.92
ATOM	14781	CB	GLU	I	27	-4.674	135.231	195.196	1.00143.03
ATOM	14782	CG	GLU	I	27	-4.438	135.550	193.725	1.00142.47
ATOM	14783	CD	GLU	I	27	-3.848	136.932	193.504	1.00142.07
ATOM	14784	OE1	GLU	I	27	-2.774	137.222	194.070	1.00142.09
ATOM	14785	OE2	GLU	I	27	-4.458	137.727	192.758	1.00141.08
ATOM	14786	N	ASN	I	28	-4.669	134.767	198.074	1.00143.66
ATOM	14787	CA	ASN	I	28	-5.065	135.027	199.453	1.00143.44
ATOM	14788	C	ASN	I	28	-5.005	133.772	200.316	1.00143.25
ATOM	14789	O	ASN	I	28	-5.753	132.820	200.097	1.00143.49
ATOM	14790	CB	ASN	I	28	-6.480	135.615	199.484	1.00144.02
ATOM	14791	CG	ASN	I	28	-7.479	134.790	198.686	1.00143.78
ATOM	14792	OD1	ASN	I	28	-8.659	135.134	198.605	1.00143.28
ATOM	14793	ND2	ASN	I	28	-7.010	133.697	198.091	1.00143.34
ATOM	14794	N	SER	I	29	-4.110	133.784	201.301	1.00142.92
ATOM	14795	CA	SER	I	29	-3.934	132.654	202.211	1.00141.94
ATOM	14796	C	SER	I	29	-2.724	132.876	203.110	1.00141.31
ATOM	14797	O	SER	I	29	-1.726	133.461	202.683	1.00141.15
ATOM	14798	CB	SER	I	29	-3.749	131.356	201.417	1.00142.15
ATOM	14799	OG	SER	I	29	-2.709	131.484	200.462	1.00141.52
ATOM	14800	N	THR	I	30	-2.818	132.409	204.353	1.00140.44
ATOM	14801	CA	THR	I	30	-1.721	132.556	205.306	1.00140.01
ATOM	14802	C	THR	I	30	-1.092	131.211	205.655	1.00140.43
ATOM	14803	O	THR	I	30	-1.792	130.216	205.864	1.00140.86
ATOM	14804	CB	THR	I	30	-2.187	133.215	206.619	1.00138.67
ATOM	14805	OG1	THR	I	30	-2.882	134.430	206.325	1.00138.07
ATOM	14806	CG2	THR	I	30	-0.989	133.535	207.506	1.00137.66
ATOM	14807	N	TYR	I	31	0.238	131.193	205.710	1.00140.14
ATOM	14808	CA	TYR	I	31	0.991	129.990	206.041	1.00139.09
ATOM	14809	C	TYR	I	31	2.094	130.358	207.026	1.00139.44
ATOM	14810	O	TYR	I	31	2.887	131.265	206.764	1.00139.19
ATOM	14811	CB	TYR	I	31	1.626	129.379	204.788	1.00136.75
ATOM	14812	CG	TYR	I	31	0.685	129.229	203.620	1.00134.41
ATOM	14813	CD1	TYR	I	31	0.402	130.309	202.787	1.00133.82
ATOM	14814	CD2	TYR	I	31	0.064	128.015	203.354	1.00133.62
ATOM	14815	CE1	TYR	I	31	-0.476	130.182	201.719	1.00134.28
ATOM	14816	CE2	TYR	I	31	-0.817	127.874	202.288	1.00134.19

ATOM	14817	CZ	TYR	I	31	-1.084	128.962	201.474	1.00134.66
ATOM	14818	OH	TYR	I	31	-1.962	128.836	200.420	1.00134.71
ATOM	14819	N	LEU	I	32	2.134	129.662	208.159	1.00139.94
ATOM	14820	CA	LEU	I	32	3.151	129.907	209.176	1.00139.76
ATOM	14821	C	LEU	I	32	4.514	129.543	208.593	1.00139.98
ATOM	14822	O	LEU	I	32	5.124	128.548	208.991	1.00139.97
ATOM	14823	CB	LEU	I	32	2.872	129.057	210.422	1.00139.24
ATOM	14824	CG	LEU	I	32	1.591	129.345	211.211	1.00139.16
ATOM	14825	CD1	LEU	I	32	1.395	128.279	212.275	1.00138.80
ATOM	14826	CD2	LEU	I	32	1.675	130.726	211.848	1.00139.71
ATOM	14827	N	ILE	I	33	4.976	130.356	207.645	1.00140.11
ATOM	14828	CA	ILE	I	33	6.255	130.143	206.974	1.00139.44
ATOM	14829	C	ILE	I	33	7.324	129.651	207.942	1.00139.89
ATOM	14830	O	ILE	I	33	7.435	130.136	209.071	1.00139.89
ATOM	14831	CB	ILE	I	33	6.757	131.437	206.302	1.00138.39
ATOM	14832	CG1	ILE	I	33	5.611	132.111	205.546	1.00137.53
ATOM	14833	CG2	ILE	I	33	7.890	131.113	205.342	1.00136.58
ATOM	14834	CD1	ILE	I	33	5.002	131.253	204.460	1.00138.90
ATOM	14835	N	GLN	I	34	8.109	128.682	207.490	1.00139.83
ATOM	14836	CA	GLN	I	34	9.161	128.110	208.315	1.00139.83
ATOM	14837	C	GLN	I	34	10.316	127.682	207.421	1.00140.09
ATOM	14838	O	GLN	I	34	10.127	126.937	206.457	1.00140.11
ATOM	14839	CB	GLN	I	34	8.602	126.915	209.086	1.00139.67
ATOM	14840	CG	GLN	I	34	9.451	126.444	210.242	1.00139.37
ATOM	14841	CD	GLN	I	34	8.711	125.452	211.119	1.00139.54
ATOM	14842	OE1	GLN	I	34	8.279	124.394	210.656	1.00139.82
ATOM	14843	NE2	GLN	I	34	8.557	125.792	212.392	1.00139.14
ATOM	14844	N	SER	I	35	11.511	128.166	207.738	1.00140.30
ATOM	14845	CA	SER	I	35	12.698	127.845	206.955	1.00140.63
ATOM	14846	C	SER	I	35	13.808	127.238	207.813	1.00140.58
ATOM	14847	O	SER	I	35	13.985	127.608	208.975	1.00140.88
ATOM	14848	CB	SER	I	35	13.203	129.106	206.245	1.00140.51
ATOM	14849	OG	SER	I	35	13.329	130.194	207.147	1.00140.12
ATOM	14850	N	TRP	I	36	14.553	126.301	207.230	1.00140.21
ATOM	14851	CA	TRP	I	36	15.642	125.633	207.936	1.00139.57
ATOM	14852	C	TRP	I	36	16.486	124.795	206.973	1.00137.93
ATOM	14853	O	TRP	I	36	16.028	124.428	205.886	1.00137.32
ATOM	14854	CB	TRP	I	36	15.072	124.733	209.035	1.00142.63
ATOM	14855	CG	TRP	I	36	14.318	123.540	208.502	1.00146.26
ATOM	14856	CD1	TRP	I	36	14.852	122.366	208.043	1.00147.46
ATOM	14857	CD2	TRP	I	36	12.899	123.427	208.331	1.00147.19
ATOM	14858	NE1	TRP	I	36	13.854	121.531	207.597	1.00148.03
ATOM	14859	CE2	TRP	I	36	12.646	122.156	207.762	1.00147.70
ATOM	14860	CE3	TRP	I	36	11.816	124.275	208.602	1.00147.01
ATOM	14861	CZ2	TRP	I	36	11.355	121.714	207.459	1.00147.82
ATOM	14862	CZ3	TRP	I	36	10.532	123.834	208.300	1.00147.80
ATOM	14863	CH2	TRP	I	36	10.315	122.564	207.734	1.00148.34
ATOM	14864	N	VAL	I	37	17.715	124.496	207.384	1.00135.75
ATOM	14865	CA	VAL	I	37	18.632	123.697	206.579	1.00133.29
ATOM	14866	C	VAL	I	37	18.954	122.404	207.318	1.00131.72
ATOM	14867	O	VAL	I	37	18.993	122.379	208.546	1.00131.30
ATOM	14868	CB	VAL	I	37	19.955	124.454	206.316	1.00133.63
ATOM	14869	CG1	VAL	I	37	20.870	123.619	205.426	1.00133.93
ATOM	14870	CG2	VAL	I	37	19.664	125.799	205.671	1.00133.31
ATOM	14871	N	GLU	I	38	19.187	121.333	206.568	1.00130.37
ATOM	14872	CA	GLU	I	38	19.508	120.038	207.162	1.00128.98
ATOM	14873	C	GLU	I	38	20.996	119.720	206.948	1.00128.31
ATOM	14874	O	GLU	I	38	21.869	120.410	207.486	1.00128.85
ATOM	14875	CB	GLU	I	38	18.623	118.953	206.534	1.00128.58
ATOM	14876	CG	GLU	I	38	17.132	119.315	206.516	1.00127.67
ATOM	14877	CD	GLU	I	38	16.268	118.292	205.790	1.00126.85
ATOM	14878	OE1	GLU	I	38	16.591	117.943	204.633	1.00124.90

ATOM	14879	OE2	GLU	I	38	15.256	117.846	206.373	1.00126.67
ATOM	14880	N	ASN	I	39	21.278	118.677	206.169	1.00126.74
ATOM	14881	CA	ASN	I	39	22.651	118.267	205.862	1.00124.45
ATOM	14882	C	ASN	I	39	22.628	117.278	204.692	1.00123.63
ATOM	14883	O	ASN	I	39	21.556	116.889	204.229	1.00123.27
ATOM	14884	CB	ASN	I	39	23.320	117.644	207.102	1.00122.18
ATOM	14885	CG	ASN	I	39	23.491	116.138	206.997	1.00119.56
ATOM	14886	OD1	ASN	I	39	22.521	115.393	206.877	1.00118.85
ATOM	14887	ND2	ASN	I	39	24.735	115.684	207.052	1.00118.35
ATOM	14888	N	ALA	I	40	23.800	116.883	204.208	1.00123.02
ATOM	14889	CA	ALA	I	40	23.882	115.954	203.083	1.00123.06
ATOM	14890	C	ALA	I	40	23.014	114.716	203.288	1.00122.74
ATOM	14891	O	ALA	I	40	22.403	114.210	202.343	1.00122.74
ATOM	14892	CB	ALA	I	40	25.329	115.541	202.849	1.00123.63
ATOM	14893	N	ASP	I	41	22.967	114.231	204.526	1.00121.99
ATOM	14894	CA	ASP	I	41	22.174	113.054	204.858	1.00121.34
ATOM	14895	C	ASP	I	41	20.797	113.469	205.354	1.00122.12
ATOM	14896	O	ASP	I	41	20.152	112.749	206.119	1.00121.66
ATOM	14897	CB	ASP	I	41	22.884	112.225	205.927	1.00119.60
ATOM	14898	CG	ASP	I	41	24.251	111.757	205.482	1.00117.35
ATOM	14899	OD1	ASP	I	41	25.121	112.614	205.228	1.00116.93
ATOM	14900	OD2	ASP	I	41	24.456	110.532	205.380	1.00117.07
ATOM	14901	N	GLY	I	42	20.362	114.643	204.908	1.00123.44
ATOM	14902	CA	GLY	I	42	19.062	115.168	205.284	1.00125.00
ATOM	14903	C	GLY	I	42	18.793	115.213	206.774	1.00125.64
ATOM	14904	O	GLY	I	42	17.722	114.813	207.221	1.00126.17
ATOM	14905	N	VAL	I	43	19.756	115.703	207.546	1.00126.59
ATOM	14906	CA	VAL	I	43	19.591	115.790	208.992	1.00127.84
ATOM	14907	C	VAL	I	43	19.690	117.232	209.472	1.00128.75
ATOM	14908	O	VAL	I	43	20.697	117.903	209.245	1.00128.60
ATOM	14909	CB	VAL	I	43	20.656	114.953	209.732	1.00127.98
ATOM	14910	CG1	VAL	I	43	20.461	115.082	211.237	1.00128.50
ATOM	14911	CG2	VAL	I	43	20.568	113.496	209.300	1.00126.55
ATOM	14912	N	LYS	I	44	18.641	117.707	210.133	1.00130.19
ATOM	14913	CA	LYS	I	44	18.640	119.073	210.636	1.00131.45
ATOM	14914	C	LYS	I	44	19.481	119.126	211.898	1.00132.30
ATOM	14915	O	LYS	I	44	19.697	118.105	212.554	1.00131.17
ATOM	14916	CB	LYS	I	44	17.218	119.547	210.944	1.00131.17
ATOM	14917	CG	LYS	I	44	16.634	118.997	212.231	1.00130.47
ATOM	14918	CD	LYS	I	44	15.401	119.781	212.624	1.00130.62
ATOM	14919	CE	LYS	I	44	14.231	119.538	211.686	1.00131.17
ATOM	14920	NZ	LYS	I	44	13.594	118.216	211.937	1.00131.09
ATOM	14921	N	ASP	I	45	19.955	120.323	212.230	1.00134.19
ATOM	14922	CA	ASP	I	45	20.789	120.519	213.409	1.00136.30
ATOM	14923	C	ASP	I	45	21.123	121.993	213.662	1.00136.68
ATOM	14924	O	ASP	I	45	20.409	122.683	214.397	1.00136.39
ATOM	14925	CB	ASP	I	45	22.082	119.701	213.266	1.00138.14
ATOM	14926	CG	ASP	I	45	22.327	119.233	211.837	1.00139.45
ATOM	14927	OD1	ASP	I	45	22.521	120.089	210.945	1.00140.41
ATOM	14928	OD2	ASP	I	45	22.316	118.003	211.608	1.00140.05
ATOM	14929	N	GLY	I	46	22.209	122.470	213.056	1.00136.72
ATOM	14930	CA	GLY	I	46	22.607	123.853	213.237	1.00136.16
ATOM	14931	C	GLY	I	46	23.834	124.228	212.432	1.00136.11
ATOM	14932	O	GLY	I	46	24.389	125.312	212.614	1.00136.25
ATOM	14933	N	ARG	I	47	24.260	123.336	211.541	1.00136.29
ATOM	14934	CA	ARG	I	47	25.432	123.591	210.703	1.00136.91
ATOM	14935	C	ARG	I	47	25.136	124.683	209.681	1.00137.15
ATOM	14936	O	ARG	I	47	25.920	124.918	208.759	1.00136.95
ATOM	14937	CB	ARG	I	47	25.862	122.318	209.967	1.00136.38
ATOM	14938	CG	ARG	I	47	27.266	121.857	210.317	1.00134.77
ATOM	14939	CD	ARG	I	47	27.298	121.171	211.675	1.00133.68
ATOM	14940	NE	ARG	I	47	28.642	121.145	212.246	1.00131.36

ATOM	14941	CZ	ARG	I	47	29.196	122.162	212.899	1.00129.72
ATOM	14942	NH1	ARG	I	47	28.523	123.292	213.075	1.00127.84
ATOM	14943	NH2	ARG	I	47	30.430	122.052	213.372	1.00128.83
ATOM	14944	N	PHE	I	48	23.995	125.339	209.860	1.00136.97
ATOM	14945	CA	PHE	I	48	23.548	126.411	208.979	1.00136.61
ATOM	14946	C	PHE	I	48	22.269	127.002	209.556	1.00136.44
ATOM	14947	O	PHE	I	48	21.297	126.283	209.790	1.00137.36
ATOM	14948	CB	PHE	I	48	23.277	125.866	207.571	1.00136.62
ATOM	14949	CG	PHE	I	48	24.349	126.196	206.567	1.00135.98
ATOM	14950	CD1	PHE	I	48	25.338	127.132	206.857	1.00135.66
ATOM	14951	CD2	PHE	I	48	24.359	125.577	205.322	1.00136.53
ATOM	14952	CE1	PHE	I	48	26.323	127.443	205.923	1.00136.07
ATOM	14953	CE2	PHE	I	48	25.341	125.879	204.379	1.00136.95
ATOM	14954	CZ	PHE	I	48	26.324	126.815	204.680	1.00136.69
ATOM	14955	N	ILE	I	49	22.273	128.308	209.793	1.00135.53
ATOM	14956	CA	ILE	I	49	21.106	128.981	210.346	1.00135.27
ATOM	14957	C	ILE	I	49	20.329	129.705	209.249	1.00136.07
ATOM	14958	O	ILE	I	49	20.887	130.071	208.215	1.00134.97
ATOM	14959	CB	ILE	I	49	21.521	129.985	211.465	1.00134.11
ATOM	14960	CG1	ILE	I	49	21.877	129.226	212.748	1.00133.35
ATOM	14961	CG2	ILE	I	49	20.387	130.951	211.768	1.00133.61
ATOM	14962	CD1	ILE	I	49	23.009	128.235	212.604	1.00133.82
ATOM	14963	N	VAL	I	50	19.031	129.886	209.476	1.00137.72
ATOM	14964	CA	VAL	I	50	18.160	130.571	208.527	1.00138.82
ATOM	14965	C	VAL	I	50	17.417	131.699	209.234	1.00139.50
ATOM	14966	O	VAL	I	50	16.876	131.512	210.329	1.00139.83
ATOM	14967	CB	VAL	I	50	17.122	129.606	207.917	1.00138.60
ATOM	14968	CG1	VAL	I	50	16.278	130.341	206.889	1.00138.21
ATOM	14969	CG2	VAL	I	50	17.827	128.418	207.281	1.00138.75
ATOM	14970	N	THR	I	51	17.397	132.870	208.604	1.00139.78
ATOM	14971	CA	THR	I	51	16.731	134.037	209.169	1.00140.03
ATOM	14972	C	THR	I	51	16.166	134.922	208.060	1.00139.93
ATOM	14973	O	THR	I	51	16.872	135.267	207.116	1.00139.51
ATOM	14974	CB	THR	I	51	17.712	134.873	210.030	1.00140.59
ATOM	14975	OG1	THR	I	51	18.904	135.144	209.280	1.00141.04
ATOM	14976	CG2	THR	I	51	18.082	134.123	211.303	1.00139.91
ATOM	14977	N	PRO	I	52	14.877	135.293	208.154	1.00140.47
ATOM	14978	CA	PRO	I	52	13.911	134.953	209.208	1.00140.86
ATOM	14979	C	PRO	I	52	13.503	133.474	209.203	1.00141.43
ATOM	14980	O	PRO	I	52	13.040	132.946	208.189	1.00140.88
ATOM	14981	CB	PRO	I	52	12.740	135.884	208.909	1.00140.64
ATOM	14982	CG	PRO	I	52	12.795	136.009	207.420	1.00140.08
ATOM	14983	CD	PRO	I	52	14.266	136.195	207.161	1.00140.52
ATOM	14984	N	PRO	I	53	13.661	132.794	210.353	1.00142.05
ATOM	14985	CA	PRO	I	53	13.325	131.373	210.515	1.00142.36
ATOM	14986	C	PRO	I	53	11.846	131.032	210.339	1.00142.51
ATOM	14987	O	PRO	I	53	11.490	130.183	209.521	1.00142.21
ATOM	14988	CB	PRO	I	53	13.834	131.063	211.923	1.00142.63
ATOM	14989	CG	PRO	I	53	13.625	132.361	212.641	1.00142.59
ATOM	14990	CD	PRO	I	53	14.116	133.373	211.631	1.00142.27
ATOM	14991	N	LEU	I	54	10.994	131.694	211.116	1.00142.87
ATOM	14992	CA	LEU	I	54	9.553	131.469	211.057	1.00142.82
ATOM	14993	C	LEU	I	54	8.802	132.801	211.099	1.00143.13
ATOM	14994	O	LEU	I	54	9.064	133.648	211.956	1.00143.44
ATOM	14995	CB	LEU	I	54	9.115	130.565	212.223	1.00141.21
ATOM	14996	CG	LEU	I	54	7.623	130.287	212.445	1.00139.69
ATOM	14997	CD1	LEU	I	54	7.461	129.029	213.274	1.00138.83
ATOM	14998	CD2	LEU	I	54	6.964	131.470	213.138	1.00138.55
ATOM	14999	N	PHE	I	55	7.873	132.980	210.163	1.00142.91
ATOM	15000	CA	PHE	I	55	7.080	134.202	210.083	1.00142.40
ATOM	15001	C	PHE	I	55	5.769	133.953	209.338	1.00142.06
ATOM	15002	O	PHE	I	55	5.629	132.945	208.645	1.00142.69

ATOM	15003	CB	PHE	I	55	7.890	135.306	209.383	1.00142.13
ATOM	15004	CG	PHE	I	55	8.346	134.952	207.986	1.00141.92
ATOM	15005	CD1	PHE	I	55	7.432	134.831	206.940	1.00141.67
ATOM	15006	CD2	PHE	I	55	9.697	134.768	207.710	1.00142.04
ATOM	15007	CE1	PHE	I	55	7.859	134.540	205.643	1.00140.99
ATOM	15008	CE2	PHE	I	55	10.131	134.476	206.414	1.00141.95
ATOM	15009	CZ	PHE	I	55	9.209	134.363	205.380	1.00141.37
ATOM	15010	N	ALA	I	56	4.812	134.867	209.482	1.00141.17
ATOM	15011	CA	ALA	I	56	3.522	134.732	208.806	1.00140.05
ATOM	15012	C	ALA	I	56	3.523	135.490	207.475	1.00139.23
ATOM	15013	O	ALA	I	56	3.780	136.694	207.434	1.00138.62
ATOM	15014	CB	ALA	I	56	2.399	135.248	209.708	1.00139.57
ATOM	15015	N	MET	I	57	3.237	134.780	206.388	1.00138.36
ATOM	15016	CA	MET	I	57	3.215	135.391	205.064	1.00138.29
ATOM	15017	C	MET	I	57	1.813	135.518	204.485	1.00138.36
ATOM	15018	O	MET	I	57	1.531	135.002	203.400	1.00137.97
ATOM	15019	CB	MET	I	57	4.086	134.589	204.100	1.00138.74
ATOM	15020	CG	MET	I	57	5.380	135.281	203.716	1.00139.25
ATOM	15021	SD	MET	I	57	6.398	134.271	202.622	1.00139.48
ATOM	15022	CE	MET	I	57	5.466	134.397	201.081	1.00138.37
ATOM	15023	N	LYS	I	58	0.943	136.214	205.212	1.00138.64
ATOM	15024	CA	LYS	I	58	-0.435	136.426	204.778	1.00138.49
ATOM	15025	C	LYS	I	58	-0.514	136.786	203.299	1.00138.50
ATOM	15026	O	LYS	I	58	0.423	137.358	202.737	1.00138.39
ATOM	15027	CB	LYS	I	58	-1.087	137.538	205.607	1.00137.90
ATOM	15028	CG	LYS	I	58	-1.795	137.051	206.858	1.00137.74
ATOM	15029	CD	LYS	I	58	-3.264	137.473	206.850	1.00138.25
ATOM	15030	CE	LYS	I	58	-3.981	136.992	205.589	1.00137.81
ATOM	15031	NZ	LYS	I	58	-5.415	137.392	205.546	1.00136.95
ATOM	15032	N	GLY	I	59	-1.638	136.449	202.675	1.00138.32
ATOM	15033	CA	GLY	I	59	-1.810	136.745	201.267	1.00138.59
ATOM	15034	C	GLY	I	59	-0.686	136.150	200.446	1.00138.69
ATOM	15035	O	GLY	I	59	-0.313	134.993	200.647	1.00138.39
ATOM	15036	N	LYS	I	60	-0.130	136.947	199.536	1.00138.55
ATOM	15037	CA	LYS	I	60	0.950	136.489	198.667	1.00138.25
ATOM	15038	C	LYS	I	60	2.203	137.377	198.682	1.00138.24
ATOM	15039	O	LYS	I	60	2.791	137.650	197.633	1.00138.14
ATOM	15040	CB	LYS	I	60	0.417	136.349	197.231	1.00137.58
ATOM	15041	CG	LYS	I	60	-0.298	137.583	196.681	1.00136.09
ATOM	15042	CD	LYS	I	60	0.620	138.440	195.817	1.00134.04
ATOM	15043	CE	LYS	I	60	0.917	137.775	194.481	1.00132.04
ATOM	15044	NZ	LYS	I	60	-0.300	137.662	193.631	1.00130.20
ATOM	15045	N	LYS	I	61	2.617	137.817	199.870	1.00138.11
ATOM	15046	CA	LYS	I	61	3.803	138.664	199.995	1.00137.56
ATOM	15047	C	LYS	I	61	5.043	137.943	199.485	1.00137.58
ATOM	15048	O	LYS	I	61	5.003	136.751	199.178	1.00137.41
ATOM	15049	CB	LYS	I	61	4.040	139.085	201.455	1.00137.16
ATOM	15050	CG	LYS	I	61	3.055	140.118	202.000	1.00137.00
ATOM	15051	CD	LYS	I	61	3.776	141.279	202.690	1.00135.93
ATOM	15052	CE	LYS	I	61	4.658	140.805	203.839	1.00135.17
ATOM	15053	NZ	LYS	I	61	5.411	141.929	204.468	1.00133.20
ATOM	15054	N	GLU	I	62	6.144	138.679	199.399	1.00137.69
ATOM	15055	CA	GLU	I	62	7.409	138.127	198.934	1.00138.21
ATOM	15056	C	GLU	I	62	8.465	138.501	199.967	1.00138.77
ATOM	15057	O	GLU	I	62	9.031	139.591	199.915	1.00139.58
ATOM	15058	CB	GLU	I	62	7.775	138.723	197.570	1.00137.46
ATOM	15059	CG	GLU	I	62	8.850	137.966	196.781	1.00137.61
ATOM	15060	CD	GLU	I	62	10.195	137.889	197.492	1.00137.73
ATOM	15061	OE1	GLU	I	62	10.306	137.152	198.495	1.00137.63
ATOM	15062	OE2	GLU	I	62	11.143	138.570	197.043	1.00137.27
ATOM	15063	N	ASN	I	63	8.723	137.600	200.909	1.00139.09
ATOM	15064	CA	ASN	I	63	9.709	137.859	201.950	1.00139.49

ATOM	15065	C	ASN	I	63	10.917	136.932	201.818	1.00139.96
ATOM	15066	O	ASN	I	63	10.798	135.711	201.964	1.00140.33
ATOM	15067	CB	ASN	I	63	9.061	137.698	203.326	1.00139.40
ATOM	15068	CG	ASN	I	63	7.847	138.595	203.503	1.00139.89
ATOM	15069	OD1	ASN	I	63	6.867	138.486	202.763	1.00139.66
ATOM	15070	ND2	ASN	I	63	7.910	139.490	204.483	1.00140.62
ATOM	15071	N	THR	I	64	12.077	137.527	201.541	1.00139.54
ATOM	15072	CA	THR	I	64	13.322	136.779	201.372	1.00138.94
ATOM	15073	C	THR	I	64	13.726	136.021	202.639	1.00138.71
ATOM	15074	O	THR	I	64	12.916	135.823	203.546	1.00139.44
ATOM	15075	CB	THR	I	64	14.493	137.718	200.959	1.00138.50
ATOM	15076	OG1	THR	I	64	14.782	138.630	202.025	1.00138.19
ATOM	15077	CG2	THR	I	64	14.132	138.516	199.711	1.00138.12
ATOM	15078	N	LEU	I	65	14.985	135.595	202.684	1.00137.77
ATOM	15079	CA	LEU	I	65	15.534	134.863	203.823	1.00136.51
ATOM	15080	C	LEU	I	65	17.051	134.993	203.784	1.00135.98
ATOM	15081	O	LEU	I	65	17.611	135.455	202.793	1.00135.91
ATOM	15082	CB	LEU	I	65	15.152	133.381	203.749	1.00136.34
ATOM	15083	CG	LEU	I	65	13.684	132.976	203.887	1.00136.24
ATOM	15084	CD1	LEU	I	65	13.546	131.475	203.668	1.00136.11
ATOM	15085	CD2	LEU	I	65	13.172	133.361	205.265	1.00136.23
ATOM	15086	N	ARG	I	66	17.715	134.585	204.860	1.00135.33
ATOM	15087	CA	ARG	I	66	19.170	134.657	204.925	1.00134.63
ATOM	15088	C	ARG	I	66	19.763	133.316	205.366	1.00134.38
ATOM	15089	O	ARG	I	66	19.189	132.615	206.202	1.00133.65
ATOM	15090	CB	ARG	I	66	19.617	135.767	205.894	1.00134.47
ATOM	15091	CG	ARG	I	66	19.312	137.211	205.448	1.00134.88
ATOM	15092	CD	ARG	I	66	18.024	137.776	206.070	1.00134.01
ATOM	15093	NE	ARG	I	66	17.767	139.174	205.703	1.00132.51
ATOM	15094	CZ	ARG	I	66	18.540	140.205	206.046	1.00131.43
ATOM	15095	NH1	ARG	I	66	19.633	140.010	206.771	1.00130.89
ATOM	15096	NH2	ARG	I	66	18.223	141.435	205.661	1.00129.85
ATOM	15097	N	ILE	I	67	20.911	132.964	204.789	1.00134.60
ATOM	15098	CA	ILE	I	67	21.603	131.718	205.121	1.00134.68
ATOM	15099	C	ILE	I	67	22.818	132.005	206.012	1.00134.60
ATOM	15100	O	ILE	I	67	23.944	132.156	205.528	1.00133.67
ATOM	15101	CB	ILE	I	67	22.083	130.968	203.839	1.00134.36
ATOM	15102	CG1	ILE	I	67	20.879	130.537	202.994	1.00133.25
ATOM	15103	CG2	ILE	I	67	22.899	129.737	204.222	1.00134.87
ATOM	15104	CD1	ILE	I	67	21.247	129.737	201.755	1.00130.68
ATOM	15105	N	LEU	I	68	22.576	132.080	207.318	1.00134.76
ATOM	15106	CA	LEU	I	68	23.630	132.349	208.289	1.00135.12
ATOM	15107	C	LEU	I	68	24.445	131.081	208.566	1.00135.44
ATOM	15108	O	LEU	I	68	24.096	129.994	208.102	1.00135.34
ATOM	15109	CB	LEU	I	68	23.010	132.871	209.591	1.00135.01
ATOM	15110	CG	LEU	I	68	22.068	134.075	209.480	1.00134.91
ATOM	15111	CD1	LEU	I	68	21.451	134.364	210.838	1.00134.88
ATOM	15112	CD2	LEU	I	68	22.826	135.290	208.967	1.00134.79
ATOM	15113	N	ASP	I	69	25.530	131.226	209.323	1.00135.53
ATOM	15114	CA	ASP	I	69	26.389	130.091	209.656	1.00135.24
ATOM	15115	C	ASP	I	69	26.862	130.159	211.112	1.00134.71
ATOM	15116	O	ASP	I	69	27.353	131.192	211.568	1.00134.89
ATOM	15117	CB	ASP	I	69	27.596	130.060	208.710	1.00135.14
ATOM	15118	CG	ASP	I	69	28.432	128.802	208.869	1.00135.53
ATOM	15119	OD1	ASP	I	69	28.153	128.017	209.801	1.00135.29
ATOM	15120	OD2	ASP	I	69	29.368	128.602	208.063	1.00135.54
ATOM	15121	N	ALA	I	70	26.711	129.054	211.839	1.00133.82
ATOM	15122	CA	ALA	I	70	27.122	129.003	213.237	1.00132.97
ATOM	15123	C	ALA	I	70	28.270	128.024	213.448	1.00132.55
ATOM	15124	O	ALA	I	70	28.950	128.069	214.471	1.00131.96
ATOM	15125	CB	ALA	I	70	25.941	128.613	214.113	1.00132.73
ATOM	15126	N	THR	I	71	28.484	127.145	212.474	1.00132.43

ATOM	15127	CA	THR	I	71	29.549	126.148	212.555	1.00132.17
ATOM	15128	C	THR	I	71	30.917	126.787	212.788	1.00130.73
ATOM	15129	O	THR	I	71	31.032	128.005	212.930	1.00130.43
ATOM	15130	CB	THR	I	71	29.626	125.295	211.262	1.00133.06
ATOM	15131	OG1	THR	I	71	30.495	124.175	211.478	1.00133.99
ATOM	15132	CG2	THR	I	71	30.175	126.117	210.104	1.00133.29
ATOM	15133	N	ASN	I	72	31.948	125.950	212.831	1.00129.47
ATOM	15134	CA	ASN	I	72	33.315	126.414	213.037	1.00128.68
ATOM	15135	C	ASN	I	72	34.115	126.287	211.746	1.00127.00
ATOM	15136	O	ASN	I	72	35.345	126.197	211.772	1.00126.95
ATOM	15137	CB	ASN	I	72	34.005	125.597	214.138	1.00130.81
ATOM	15138	CG	ASN	I	72	33.437	125.870	215.518	1.00132.60
ATOM	15139	OD1	ASN	I	72	33.954	125.372	216.521	1.00133.06
ATOM	15140	ND2	ASN	I	72	32.367	126.661	215.579	1.00133.45
ATOM	15141	N	ASN	I	73	33.412	126.277	210.619	1.00124.56
ATOM	15142	CA	ASN	I	73	34.060	126.157	209.318	1.00121.79
ATOM	15143	C	ASN	I	73	34.697	124.774	209.167	1.00119.78
ATOM	15144	O	ASN	I	73	35.495	124.554	208.259	1.00119.45
ATOM	15145	CB	ASN	I	73	35.137	127.242	209.158	1.00122.08
ATOM	15146	CG	ASN	I	73	34.596	128.651	209.375	1.00122.44
ATOM	15147	OD1	ASN	I	73	34.023	128.960	210.422	1.00121.92
ATOM	15148	ND2	ASN	I	73	34.786	129.516	208.384	1.00121.83
ATOM	15149	N	GLN	I	74	34.340	123.851	210.061	1.00117.93
ATOM	15150	CA	GLN	I	74	34.875	122.487	210.034	1.00115.15
ATOM	15151	C	GLN	I	74	34.256	121.635	208.930	1.00114.06
ATOM	15152	O	GLN	I	74	33.678	120.579	209.204	1.00114.18
ATOM	15153	CB	GLN	I	74	34.651	121.782	211.380	1.00114.23
ATOM	15154	CG	GLN	I	74	35.472	122.331	212.540	1.00113.01
ATOM	15155	CD	GLN	I	74	35.373	121.472	213.794	1.00111.66
ATOM	15156	OE1	GLN	I	74	35.918	121.821	214.843	1.00109.38
ATOM	15157	NE2	GLN	I	74	34.680	120.341	213.688	1.00111.34
ATOM	15158	N	LEU	I	75	34.386	122.095	207.687	1.00112.59
ATOM	15159	CA	LEU	I	75	33.852	121.386	206.523	1.00109.68
ATOM	15160	C	LEU	I	75	34.922	121.356	205.420	1.00107.91
ATOM	15161	O	LEU	I	75	35.677	122.317	205.257	1.00107.06
ATOM	15162	CB	LEU	I	75	32.587	122.096	206.021	1.00108.15
ATOM	15163	CG	LEU	I	75	31.513	122.431	207.065	1.00105.53
ATOM	15164	CD1	LEU	I	75	30.444	123.300	206.436	1.00104.72
ATOM	15165	CD2	LEU	I	75	30.908	121.156	207.622	1.00104.12
ATOM	15166	N	PRO	I	76	35.002	120.251	204.653	1.00106.49
ATOM	15167	CA	PRO	I	76	35.987	120.113	203.575	1.00105.62
ATOM	15168	C	PRO	I	76	36.181	121.399	202.781	1.00105.58
ATOM	15169	O	PRO	I	76	35.216	122.111	202.496	1.00105.52
ATOM	15170	CB	PRO	I	76	35.408	118.985	202.732	1.00105.25
ATOM	15171	CG	PRO	I	76	34.803	118.099	203.766	1.00104.77
ATOM	15172	CD	PRO	I	76	34.092	119.090	204.673	1.00106.43
ATOM	15173	N	GLN	I	77	37.428	121.696	202.427	1.00105.41
ATOM	15174	CA	GLN	I	77	37.724	122.912	201.677	1.00105.08
ATOM	15175	C	GLN	I	77	38.306	122.659	200.287	1.00103.96
ATOM	15176	O	GLN	I	77	38.551	123.598	199.526	1.00103.55
ATOM	15177	CB	GLN	I	77	38.667	123.808	202.482	1.00106.13
ATOM	15178	CG	GLN	I	77	38.210	124.066	203.912	1.00107.08
ATOM	15179	CD	GLN	I	77	36.807	124.665	204.020	1.00108.46
ATOM	15180	OE1	GLN	I	77	36.292	124.862	205.124	1.00107.17
ATOM	15181	NE2	GLN	I	77	36.188	124.956	202.878	1.00108.55
ATOM	15182	N	ASP	I	78	38.536	121.395	199.954	1.00102.67
ATOM	15183	CA	ASP	I	78	39.053	121.060	198.637	1.00101.46
ATOM	15184	C	ASP	I	78	37.865	120.810	197.712	1.00102.30
ATOM	15185	O	ASP	I	78	37.938	121.065	196.511	1.00102.27
ATOM	15186	CB	ASP	I	78	39.944	119.817	198.702	1.00 98.39
ATOM	15187	CG	ASP	I	78	39.235	118.615	199.295	1.00 97.43
ATOM	15188	OD1	ASP	I	78	38.075	118.749	199.742	1.00 96.07

ATOM	15189	OD2	ASP	I	78	39.846	117.527	199.318	1.00	96.11
ATOM	15190	N	ARG	I	79	36.768	120.325	198.293	1.00	103.22
ATOM	15191	CA	ARG	I	79	35.543	120.030	197.553	1.00	103.68
ATOM	15192	C	ARG	I	79	34.307	120.610	198.254	1.00	104.60
ATOM	15193	O	ARG	I	79	34.423	121.315	199.256	1.00	105.02
ATOM	15194	CB	ARG	I	79	35.386	118.517	197.395	1.00	102.94
ATOM	15195	CG	ARG	I	79	35.235	117.772	198.706	1.00	103.35
ATOM	15196	CD	ARG	I	79	35.075	116.278	198.466	1.00	106.15
ATOM	15197	NE	ARG	I	79	36.317	115.643	198.029	1.00	105.14
ATOM	15198	CZ	ARG	I	79	37.414	115.557	198.775	1.00	104.53
ATOM	15199	NH1	ARG	I	79	37.425	116.071	200.000	1.00	104.21
ATOM	15200	NH2	ARG	I	79	38.496	114.949	198.304	1.00	102.29
ATOM	15201	N	GLU	I	80	33.124	120.304	197.725	1.00	104.87
ATOM	15202	CA	GLU	I	80	31.868	120.799	198.291	1.00	104.17
ATOM	15203	C	GLU	I	80	31.231	119.823	199.286	1.00	104.53
ATOM	15204	O	GLU	I	80	31.439	118.614	199.204	1.00	104.41
ATOM	15205	CB	GLU	I	80	30.871	121.080	197.164	1.00	102.40
ATOM	15206	CG	GLU	I	80	31.306	122.150	196.182	1.00	99.64
ATOM	15207	CD	GLU	I	80	30.417	122.212	194.952	1.00	98.04
ATOM	15208	OE1	GLU	I	80	29.569	121.313	194.773	1.00	96.26
ATOM	15209	OE2	GLU	I	80	30.571	123.159	194.158	1.00	96.62
ATOM	15210	N	SER	I	81	30.457	120.359	200.226	1.00	104.92
ATOM	15211	CA	SER	I	81	29.768	119.539	201.219	1.00	105.64
ATOM	15212	C	SER	I	81	28.269	119.771	201.097	1.00	107.32
ATOM	15213	O	SER	I	81	27.733	120.719	201.669	1.00	107.01
ATOM	15214	CB	SER	I	81	30.230	119.891	202.631	1.00	103.79
ATOM	15215	OG	SER	I	81	31.503	119.335	202.892	1.00	102.90
ATOM	15216	N	LEU	I	82	27.608	118.893	200.345	1.00	109.00
ATOM	15217	CA	LEU	I	82	26.169	118.969	200.091	1.00	109.88
ATOM	15218	C	LEU	I	82	25.293	119.168	201.325	1.00	110.84
ATOM	15219	O	LEU	I	82	25.482	118.520	202.352	1.00	110.32
ATOM	15220	CB	LEU	I	82	25.709	117.709	199.353	1.00	108.93
ATOM	15221	CG	LEU	I	82	24.246	117.639	198.912	1.00	108.48
ATOM	15222	CD1	LEU	I	82	23.996	118.645	197.803	1.00	107.40
ATOM	15223	CD2	LEU	I	82	23.930	116.233	198.430	1.00	107.52
ATOM	15224	N	PHE	I	83	24.333	120.079	201.199	1.00	112.80
ATOM	15225	CA	PHE	I	83	23.376	120.387	202.259	1.00	115.49
ATOM	15226	C	PHE	I	83	21.988	120.387	201.624	1.00	117.14
ATOM	15227	O	PHE	I	83	21.851	120.147	200.421	1.00	117.11
ATOM	15228	CB	PHE	I	83	23.641	121.768	202.868	1.00	115.98
ATOM	15229	CG	PHE	I	83	24.706	121.780	203.928	1.00	117.23
ATOM	15230	CD1	PHE	I	83	26.038	121.550	203.604	1.00	116.96
ATOM	15231	CD2	PHE	I	83	24.373	122.032	205.258	1.00	117.96
ATOM	15232	CE1	PHE	I	83	27.029	121.570	204.587	1.00	116.54
ATOM	15233	CE2	PHE	I	83	25.355	122.055	206.251	1.00	117.36
ATOM	15234	CZ	PHE	I	83	26.686	121.824	205.913	1.00	116.15
ATOM	15235	N	TRP	I	84	20.962	120.664	202.426	1.00	118.82
ATOM	15236	CA	TRP	I	84	19.594	120.693	201.915	1.00	119.54
ATOM	15237	C	TRP	I	84	18.711	121.768	202.546	1.00	119.90
ATOM	15238	O	TRP	I	84	18.533	121.816	203.764	1.00	118.42
ATOM	15239	CB	TRP	I	84	18.922	119.324	202.095	1.00	119.48
ATOM	15240	CG	TRP	I	84	19.497	118.233	201.233	1.00	118.67
ATOM	15241	CD1	TRP	I	84	20.267	117.183	201.642	1.00	117.78
ATOM	15242	CD2	TRP	I	84	19.344	118.089	199.814	1.00	118.84
ATOM	15243	NE1	TRP	I	84	20.602	116.391	200.568	1.00	118.35
ATOM	15244	CE2	TRP	I	84	20.049	116.925	199.433	1.00	118.68
ATOM	15245	CE3	TRP	I	84	18.679	118.831	198.826	1.00	119.20
ATOM	15246	CZ2	TRP	I	84	20.108	116.482	198.105	1.00	118.22
ATOM	15247	CZ3	TRP	I	84	18.738	118.390	197.503	1.00	119.24
ATOM	15248	CH2	TRP	I	84	19.448	117.226	197.159	1.00	118.53
ATOM	15249	N	MET	I	85	18.164	122.628	201.693	1.00	121.56
ATOM	15250	CA	MET	I	85	17.273	123.695	202.130	1.00	123.82

ATOM	15251	C	MET	I	85	15.842	123.300	201.791	1.00124.39
ATOM	15252	O	MET	I	85	15.575	122.751	200.720	1.00124.03
ATOM	15253	CB	MET	I	85	17.604	125.011	201.422	1.00124.75
ATOM	15254	CG	MET	I	85	18.831	125.727	201.942	1.00126.86
ATOM	15255	SD	MET	I	85	19.071	127.295	201.080	1.00128.73
ATOM	15256	CE	MET	I	85	17.797	128.298	201.855	1.00130.10
ATOM	15257	N	ASN	I	86	14.922	123.574	202.705	1.00125.17
ATOM	15258	CA	ASN	I	86	13.529	123.243	202.468	1.00126.35
ATOM	15259	C	ASN	I	86	12.594	124.294	203.044	1.00127.64
ATOM	15260	O	ASN	I	86	12.578	124.534	204.253	1.00128.03
ATOM	15261	CB	ASN	I	86	13.199	121.871	203.064	1.00125.77
ATOM	15262	CG	ASN	I	86	14.046	120.762	202.474	1.00124.70
ATOM	15263	OD1	ASN	I	86	15.233	120.649	202.773	1.00124.93
ATOM	15264	ND2	ASN	I	86	13.442	119.941	201.624	1.00123.31
ATOM	15265	N	VAL	I	87	11.826	124.928	202.163	1.00128.55
ATOM	15266	CA	VAL	I	87	10.868	125.944	202.576	1.00129.17
ATOM	15267	C	VAL	I	87	9.501	125.273	202.677	1.00129.29
ATOM	15268	O	VAL	I	87	8.971	124.749	201.691	1.00128.04
ATOM	15269	CB	VAL	I	87	10.806	127.118	201.559	1.00129.72
ATOM	15270	CG1	VAL	I	87	9.795	128.162	202.020	1.00129.01
ATOM	15271	CG2	VAL	I	87	12.181	127.752	201.417	1.00129.25
ATOM	15272	N	LYS	I	88	8.951	125.280	203.887	1.00129.97
ATOM	15273	CA	LYS	I	88	7.656	124.670	204.158	1.00131.24
ATOM	15274	C	LYS	I	88	6.737	125.683	204.828	1.00131.92
ATOM	15275	O	LYS	I	88	6.964	126.074	205.974	1.00132.09
ATOM	15276	CB	LYS	I	88	7.833	123.456	205.076	1.00130.92
ATOM	15277	CG	LYS	I	88	6.552	122.695	205.370	1.00130.29
ATOM	15278	CD	LYS	I	88	6.757	121.666	206.474	1.00129.65
ATOM	15279	CE	LYS	I	88	7.023	122.340	207.814	1.00129.00
ATOM	15280	NZ	LYS	I	88	7.085	121.368	208.943	1.00128.16
ATOM	15281	N	ALA	I	89	5.703	126.107	204.109	1.00132.63
ATOM	15282	CA	ALA	I	89	4.749	127.074	204.638	1.00133.42
ATOM	15283	C	ALA	I	89	3.574	126.358	205.293	1.00134.10
ATOM	15284	O	ALA	I	89	2.494	126.253	204.711	1.00134.16
ATOM	15285	CB	ALA	I	89	4.254	127.984	203.521	1.00133.06
ATOM	15286	N	ILE	I	90	3.800	125.863	206.507	1.00135.07
ATOM	15287	CA	ILE	I	90	2.774	125.152	207.263	1.00136.20
ATOM	15288	C	ILE	I	90	1.466	125.935	207.232	1.00137.21
ATOM	15289	O	ILE	I	90	1.315	126.929	207.939	1.00137.64
ATOM	15290	CB	ILE	I	90	3.195	124.972	208.737	1.00136.04
ATOM	15291	CG1	ILE	I	90	4.599	124.371	208.811	1.00136.13
ATOM	15292	CG2	ILE	I	90	2.199	124.072	209.452	1.00135.69
ATOM	15293	CD1	ILE	I	90	5.117	124.185	210.225	1.00136.80
ATOM	15294	N	PRO	I	91	0.498	125.492	206.413	1.00138.28
ATOM	15295	CA	PRO	I	91	-0.787	126.189	206.324	1.00138.85
ATOM	15296	C	PRO	I	91	-1.595	126.080	207.609	1.00139.60
ATOM	15297	O	PRO	I	91	-1.844	124.982	208.104	1.00139.59
ATOM	15298	CB	PRO	I	91	-1.469	125.494	205.152	1.00138.49
ATOM	15299	CG	PRO	I	91	-0.990	124.089	205.297	1.00138.31
ATOM	15300	CD	PRO	I	91	0.487	124.271	205.588	1.00138.64
ATOM	15301	N	SER	I	92	-1.991	127.224	208.154	1.00140.89
ATOM	15302	CA	SER	I	92	-2.784	127.241	209.374	1.00142.31
ATOM	15303	C	SER	I	92	-4.197	126.789	209.022	1.00143.69
ATOM	15304	O	SER	I	92	-4.814	127.319	208.096	1.00143.78
ATOM	15305	CB	SER	I	92	-2.816	128.651	209.969	1.00142.29
ATOM	15306	OG	SER	I	92	-1.514	129.093	210.314	1.00142.46
ATOM	15307	N	MET	I	93	-4.697	125.797	209.754	1.00144.98
ATOM	15308	CA	MET	I	93	-6.037	125.263	209.522	1.00146.05
ATOM	15309	C	MET	I	93	-7.050	126.398	209.396	1.00146.49
ATOM	15310	O	MET	I	93	-7.107	127.283	210.248	1.00146.36
ATOM	15311	CB	MET	I	93	-6.437	124.349	210.681	1.00146.88
ATOM	15312	CG	MET	I	93	-7.764	123.635	210.494	1.00147.54

ATOM	15313	SD	MET	I	93	-8.439	123.071	212.072	1.00148.61
ATOM	15314	CE	MET	I	93	-7.261	121.801	212.525	1.00147.67
ATOM	15315	N	ASP	I	94	-7.851	126.365	208.335	1.00147.32
ATOM	15316	CA	ASP	I	94	-8.859	127.399	208.102	1.00148.51
ATOM	15317	C	ASP	I	94	-9.923	127.431	209.206	1.00149.15
ATOM	15318	O	ASP	I	94	-9.662	127.034	210.343	1.00149.09
ATOM	15319	CB	ASP	I	94	-9.531	127.180	206.743	1.00148.78
ATOM	15320	CG	ASP	I	94	-8.539	127.167	205.595	1.00148.95
ATOM	15321	OD1	ASP	I	94	-7.318	127.257	205.857	1.00148.98
ATOM	15322	OD2	ASP	I	94	-8.982	127.064	204.431	1.00148.38
ATOM	15323	N	LYS	I	95	-11.120	127.910	208.871	1.00149.81
ATOM	15324	CA	LYS	I	95	-12.202	127.993	209.850	1.00150.82
ATOM	15325	C	LYS	I	95	-13.592	127.753	209.248	1.00151.55
ATOM	15326	O	LYS	I	95	-14.353	128.700	209.044	1.00152.11
ATOM	15327	CB	LYS	I	95	-12.194	129.364	210.540	1.00150.63
ATOM	15328	CG	LYS	I	95	-10.816	129.929	210.850	1.00150.97
ATOM	15329	CD	LYS	I	95	-10.203	130.580	209.617	1.00151.54
ATOM	15330	CE	LYS	I	95	-8.773	131.026	209.870	1.00152.17
ATOM	15331	NZ	LYS	I	95	-7.883	129.869	210.157	1.00152.58
ATOM	15332	N	SER	I	96	-13.916	126.490	208.971	1.00152.04
ATOM	15333	CA	SER	I	96	-15.217	126.104	208.413	1.00152.55
ATOM	15334	C	SER	I	96	-15.189	124.650	207.950	1.00153.12
ATOM	15335	O	SER	I	96	-16.153	123.906	208.134	1.00153.20
ATOM	15336	CB	SER	I	96	-15.605	126.997	207.235	1.00152.32
ATOM	15337	OG	SER	I	96	-16.909	126.676	206.784	1.00152.13
ATOM	15338	N	LYS	I	97	-14.079	124.261	207.332	1.00153.68
ATOM	15339	CA	LYS	I	97	-13.890	122.895	206.861	1.00154.23
ATOM	15340	C	LYS	I	97	-13.642	122.054	208.108	1.00154.65
ATOM	15341	O	LYS	I	97	-13.785	120.831	208.099	1.00154.64
ATOM	15342	CB	LYS	I	97	-12.665	122.818	205.947	1.00154.40
ATOM	15343	CG	LYS	I	97	-12.749	123.646	204.678	1.00154.28
ATOM	15344	CD	LYS	I	97	-13.745	123.051	203.710	1.00155.27
ATOM	15345	CE	LYS	I	97	-13.494	123.549	202.301	1.00155.75
ATOM	15346	NZ	LYS	I	97	-14.240	122.740	201.298	1.00157.00
ATOM	15347	N	LEU	I	98	-13.261	122.746	209.178	1.00155.21
ATOM	15348	CA	LEU	I	98	-12.966	122.144	210.472	1.00156.01
ATOM	15349	C	LEU	I	98	-14.014	121.123	210.910	1.00157.12
ATOM	15350	O	LEU	I	98	-13.685	120.133	211.563	1.00157.29
ATOM	15351	CB	LEU	I	98	-12.824	123.263	211.518	1.00155.22
ATOM	15352	CG	LEU	I	98	-12.625	122.994	213.015	1.00154.53
ATOM	15353	CD1	LEU	I	98	-13.965	122.781	213.696	1.00153.50
ATOM	15354	CD2	LEU	I	98	-11.699	121.808	213.205	1.00154.87
ATOM	15355	N	THR	I	99	-15.268	121.356	210.533	1.00158.37
ATOM	15356	CA	THR	I	99	-16.358	120.457	210.904	1.00159.36
ATOM	15357	C	THR	I	99	-16.609	119.362	209.872	1.00159.50
ATOM	15358	O	THR	I	99	-17.750	118.962	209.642	1.00159.42
ATOM	15359	CB	THR	I	99	-17.673	121.237	211.122	1.00159.98
ATOM	15360	OG1	THR	I	99	-18.136	121.761	209.870	1.00159.74
ATOM	15361	CG2	THR	I	99	-17.448	122.388	212.099	1.00160.23
ATOM	15362	N	GLU	I	100	-15.535	118.878	209.254	1.00159.91
ATOM	15363	CA	GLU	I	100	-15.633	117.824	208.248	1.00160.18
ATOM	15364	C	GLU	I	100	-14.331	117.027	208.184	1.00160.00
ATOM	15365	O	GLU	I	100	-13.333	117.403	208.801	1.00160.31
ATOM	15366	CB	GLU	I	100	-15.915	118.424	206.868	1.00160.85
ATOM	15367	CG	GLU	I	100	-17.171	119.275	206.764	1.00161.37
ATOM	15368	CD	GLU	I	100	-17.382	119.821	205.362	1.00161.61
ATOM	15369	OE1	GLU	I	100	-17.584	119.011	204.431	1.00161.46
ATOM	15370	OE2	GLU	I	100	-17.341	121.059	205.191	1.00161.22
ATOM	15371	N	ASN	I	101	-14.351	115.929	207.432	1.00159.43
ATOM	15372	CA	ASN	I	101	-13.174	115.079	207.269	1.00158.31
ATOM	15373	C	ASN	I	101	-12.260	115.703	206.218	1.00157.64
ATOM	15374	O	ASN	I	101	-12.203	115.246	205.077	1.00157.56

ATOM	15375	CB	ASN	I	101	-13.592	113.676	206.821	1.00158.07
ATOM	15376	CG	ASN	I	101	-14.565	113.023	207.782	1.00158.26
ATOM	15377	OD1	ASN	I	101	-15.646	113.550	208.043	1.00158.29
ATOM	15378	ND2	ASN	I	101	-14.187	111.866	208.312	1.00158.90
ATOM	15379	N	THR	I	102	-11.543	116.748	206.622	1.00156.86
ATOM	15380	CA	THR	I	102	-10.642	117.477	205.733	1.00156.06
ATOM	15381	C	THR	I	102	-9.266	116.839	205.505	1.00155.37
ATOM	15382	O	THR	I	102	-8.948	115.787	206.062	1.00155.71
ATOM	15383	CB	THR	I	102	-10.443	118.924	206.243	1.00156.14
ATOM	15384	OG1	THR	I	102	-10.081	118.903	207.631	1.00156.23
ATOM	15385	CG2	THR	I	102	-11.721	119.725	206.072	1.00155.88
ATOM	15386	N	LEU	I	103	-8.466	117.496	204.667	1.00153.90
ATOM	15387	CA	LEU	I	103	-7.113	117.054	204.324	1.00152.39
ATOM	15388	C	LEU	I	103	-6.347	118.261	203.781	1.00151.06
ATOM	15389	O	LEU	I	103	-6.413	118.553	202.587	1.00150.91
ATOM	15390	CB	LEU	I	103	-7.163	115.957	203.252	1.00152.53
ATOM	15391	CG	LEU	I	103	-5.830	115.440	202.693	1.00152.22
ATOM	15392	CD1	LEU	I	103	-5.060	114.683	203.769	1.00151.61
ATOM	15393	CD2	LEU	I	103	-6.103	114.534	201.507	1.00151.61
ATOM	15394	N	GLN	I	104	-5.627	118.961	204.657	1.00149.24
ATOM	15395	CA	GLN	I	104	-4.870	120.149	204.256	1.00146.77
ATOM	15396	C	GLN	I	104	-3.377	119.846	204.116	1.00144.62
ATOM	15397	O	GLN	I	104	-2.737	119.352	205.046	1.00144.25
ATOM	15398	CB	GLN	I	104	-5.095	121.277	205.274	1.00147.13
ATOM	15399	CG	GLN	I	104	-5.049	122.683	204.682	1.00145.98
ATOM	15400	CD	GLN	I	104	-5.600	123.737	205.630	1.00145.62
ATOM	15401	OE1	GLN	I	104	-6.737	123.638	206.094	1.00145.04
ATOM	15402	NE2	GLN	I	104	-4.798	124.757	205.917	1.00145.37
ATOM	15403	N	LEU	I	105	-2.829	120.158	202.945	1.00141.82
ATOM	15404	CA	LEU	I	105	-1.425	119.899	202.654	1.00138.85
ATOM	15405	C	LEU	I	105	-0.503	121.078	202.932	1.00137.52
ATOM	15406	O	LEU	I	105	-0.951	122.207	203.134	1.00137.17
ATOM	15407	CB	LEU	I	105	-1.269	119.481	201.191	1.00137.51
ATOM	15408	CG	LEU	I	105	-2.219	118.386	200.704	1.00136.31
ATOM	15409	CD1	LEU	I	105	-1.924	118.077	199.247	1.00136.16
ATOM	15410	CD2	LEU	I	105	-2.066	117.142	201.565	1.00134.75
ATOM	15411	N	ALA	I	106	0.795	120.790	202.936	1.00135.94
ATOM	15412	CA	ALA	I	106	1.837	121.784	203.165	1.00134.42
ATOM	15413	C	ALA	I	106	3.003	121.433	202.247	1.00133.81
ATOM	15414	O	ALA	I	106	4.032	120.929	202.704	1.00134.42
ATOM	15415	CB	ALA	I	106	2.287	121.751	204.617	1.00132.56
ATOM	15416	N	ILE	I	107	2.831	121.692	200.952	1.00132.34
ATOM	15417	CA	ILE	I	107	3.859	121.392	199.960	1.00130.74
ATOM	15418	C	ILE	I	107	5.207	122.002	200.328	1.00130.05
ATOM	15419	O	ILE	I	107	5.328	123.215	200.520	1.00129.92
ATOM	15420	CB	ILE	I	107	3.454	121.890	198.551	1.00130.09
ATOM	15421	CG1	ILE	I	107	2.198	121.156	198.072	1.00129.42
ATOM	15422	CG2	ILE	I	107	4.585	121.636	197.565	1.00130.13
ATOM	15423	CD1	ILE	I	107	0.949	121.461	198.874	1.00129.24
ATOM	15424	N	ILE	I	108	6.216	121.142	200.420	1.00128.83
ATOM	15425	CA	ILE	I	108	7.565	121.559	200.774	1.00126.92
ATOM	15426	C	ILE	I	108	8.471	121.471	199.549	1.00125.79
ATOM	15427	O	ILE	I	108	8.151	120.783	198.579	1.00125.20
ATOM	15428	CB	ILE	I	108	8.133	120.658	201.887	1.00126.90
ATOM	15429	CG1	ILE	I	108	7.089	120.490	202.995	1.00126.19
ATOM	15430	CG2	ILE	I	108	9.410	121.266	202.445	1.00127.05
ATOM	15431	CD1	ILE	I	108	7.490	119.527	204.095	1.00125.78
ATOM	15432	N	SER	I	109	9.598	122.172	199.596	1.00124.64
ATOM	15433	CA	SER	I	109	10.549	122.173	198.490	1.00123.32
ATOM	15434	C	SER	I	109	11.953	121.792	198.963	1.00121.71
ATOM	15435	O	SER	I	109	12.330	122.065	200.103	1.00121.07
ATOM	15436	CB	SER	I	109	10.565	123.554	197.830	1.00124.53

ATOM	15437	OG	SER	I	109	10.548	124.580	198.809	1.00126.34
ATOM	15438	N	ARG	I	110	12.721	121.157	198.084	1.00120.36
ATOM	15439	CA	ARG	I	110	14.077	120.728	198.420	1.00118.78
ATOM	15440	C	ARG	I	110	15.074	121.188	197.357	1.00118.37
ATOM	15441	O	ARG	I	110	15.038	120.729	196.209	1.00117.67
ATOM	15442	CB	ARG	I	110	14.130	119.203	198.543	1.00118.43
ATOM	15443	CG	ARG	I	110	15.354	118.672	199.270	1.00116.48
ATOM	15444	CD	ARG	I	110	15.489	117.166	199.098	1.00115.40
ATOM	15445	NE	ARG	I	110	16.497	116.602	199.993	1.00116.00
ATOM	15446	CZ	ARG	I	110	16.983	115.367	199.898	1.00116.93
ATOM	15447	NH1	ARG	I	110	16.559	114.552	198.939	1.00117.53
ATOM	15448	NH2	ARG	I	110	17.892	114.939	200.766	1.00117.26
ATOM	15449	N	ILE	I	111	15.965	122.093	197.751	1.00117.41
ATOM	15450	CA	ILE	I	111	16.973	122.634	196.845	1.00115.78
ATOM	15451	C	ILE	I	111	18.382	122.239	197.268	1.00114.06
ATOM	15452	O	ILE	I	111	18.602	121.746	198.374	1.00113.29
ATOM	15453	CB	ILE	I	111	16.898	124.191	196.775	1.00116.84
ATOM	15454	CG1	ILE	I	111	17.099	124.795	198.172	1.00116.51
ATOM	15455	CG2	ILE	I	111	15.557	124.625	196.199	1.00116.87
ATOM	15456	CD1	ILE	I	111	17.027	126.313	198.216	1.00113.54
ATOM	15457	N	LYS	I	112	19.333	122.471	196.373	1.00112.96
ATOM	15458	CA	LYS	I	112	20.732	122.158	196.633	1.00111.86
ATOM	15459	C	LYS	I	112	21.452	123.368	197.229	1.00110.25
ATOM	15460	O	LYS	I	112	21.378	124.468	196.684	1.00109.64
ATOM	15461	CB	LYS	I	112	21.424	121.764	195.328	1.00112.38
ATOM	15462	CG	LYS	I	112	20.841	120.548	194.622	1.00112.62
ATOM	15463	CD	LYS	I	112	21.351	119.259	195.229	1.00112.01
ATOM	15464	CE	LYS	I	112	21.014	118.078	194.343	1.00112.68
ATOM	15465	NZ	LYS	I	112	21.591	116.819	194.887	1.00114.97
ATOM	15466	N	LEU	I	113	22.141	123.163	198.349	1.00108.68
ATOM	15467	CA	LEU	I	113	22.897	124.236	198.994	1.00107.10
ATOM	15468	C	LEU	I	113	24.358	123.823	199.081	1.00107.49
ATOM	15469	O	LEU	I	113	24.815	123.315	200.105	1.00107.34
ATOM	15470	CB	LEU	I	113	22.364	124.523	200.402	1.00104.00
ATOM	15471	CG	LEU	I	113	23.148	125.540	201.241	1.00 98.71
ATOM	15472	CD1	LEU	I	113	23.196	126.877	200.540	1.00 97.83
ATOM	15473	CD2	LEU	I	113	22.490	125.686	202.594	1.00 99.36
ATOM	15474	N	TYR	I	114	25.087	124.045	197.995	1.00108.35
ATOM	15475	CA	TYR	I	114	26.495	123.689	197.939	1.00108.97
ATOM	15476	C	TYR	I	114	27.428	124.601	198.719	1.00109.79
ATOM	15477	O	TYR	I	114	27.646	125.755	198.339	1.00108.74
ATOM	15478	CB	TYR	I	114	26.979	123.645	196.491	1.00108.30
ATOM	15479	CG	TYR	I	114	26.424	122.508	195.675	1.00108.73
ATOM	15480	CD1	TYR	I	114	25.464	121.642	196.201	1.00108.95
ATOM	15481	CD2	TYR	I	114	26.853	122.304	194.367	1.00109.11
ATOM	15482	CE1	TYR	I	114	24.947	120.604	195.440	1.00109.63
ATOM	15483	CE2	TYR	I	114	26.345	121.271	193.598	1.00109.77
ATOM	15484	CZ	TYR	I	114	25.392	120.426	194.137	1.00110.36
ATOM	15485	OH	TYR	I	114	24.879	119.414	193.359	1.00112.11
ATOM	15486	N	TYR	I	115	27.968	124.079	199.817	1.00111.04
ATOM	15487	CA	TYR	I	115	28.935	124.826	200.603	1.00111.96
ATOM	15488	C	TYR	I	115	30.208	124.675	199.775	1.00112.70
ATOM	15489	O	TYR	I	115	30.950	123.698	199.922	1.00111.55
ATOM	15490	CB	TYR	I	115	29.134	124.192	201.979	1.00112.18
ATOM	15491	CG	TYR	I	115	30.372	124.693	202.697	1.00113.27
ATOM	15492	CD1	TYR	I	115	30.459	126.008	203.152	1.00112.95
ATOM	15493	CD2	TYR	I	115	31.465	123.850	202.910	1.00114.36
ATOM	15494	CE1	TYR	I	115	31.607	126.474	203.806	1.00112.72
ATOM	15495	CE2	TYR	I	115	32.616	124.306	203.559	1.00113.76
ATOM	15496	CZ	TYR	I	115	32.678	125.616	204.005	1.00112.83
ATOM	15497	OH	TYR	I	115	33.804	126.061	204.660	1.00111.22
ATOM	15498	N	ARG	I	116	30.434	125.634	198.882	1.00113.57

ATOM	15499	CA	ARG	I	116	31.594	125.609	198.004	1.00114.30
ATOM	15500	C	ARG	I	116	32.765	126.416	198.552	1.00115.44
ATOM	15501	O	ARG	I	116	32.638	127.609	198.824	1.00115.45
ATOM	15502	CB	ARG	I	116	31.210	126.132	196.622	1.00112.97
ATOM	15503	CG	ARG	I	116	32.311	126.000	195.592	1.00112.47
ATOM	15504	CD	ARG	I	116	31.814	126.448	194.239	1.00112.96
ATOM	15505	NE	ARG	I	116	30.739	125.592	193.749	1.00111.43
ATOM	15506	CZ	ARG	I	116	30.004	125.859	192.675	1.00110.54
ATOM	15507	NH1	ARG	I	116	30.224	126.965	191.975	1.00109.14
ATOM	15508	NH2	ARG	I	116	29.054	125.015	192.297	1.00110.69
ATOM	15509	N	PRO	I	117	33.927	125.763	198.717	1.00116.26
ATOM	15510	CA	PRO	I	117	35.152	126.383	199.230	1.00116.61
ATOM	15511	C	PRO	I	117	35.674	127.526	198.358	1.00117.31
ATOM	15512	O	PRO	I	117	35.662	127.441	197.129	1.00118.03
ATOM	15513	CB	PRO	I	117	36.130	125.213	199.276	1.00116.95
ATOM	15514	CG	PRO	I	117	35.237	124.040	199.512	1.00116.06
ATOM	15515	CD	PRO	I	117	34.115	124.311	198.554	1.00115.80
ATOM	15516	N	ALA	I	118	36.132	128.593	199.002	1.00117.54
ATOM	15517	CA	ALA	I	118	36.676	129.742	198.292	1.00117.87
ATOM	15518	C	ALA	I	118	38.182	129.541	198.170	1.00118.40
ATOM	15519	O	ALA	I	118	38.972	130.228	198.823	1.00118.60
ATOM	15520	CB	ALA	I	118	36.374	131.021	199.054	1.00117.02
ATOM	15521	N	LYS	I	119	38.569	128.586	197.331	1.00118.14
ATOM	15522	CA	LYS	I	119	39.973	128.265	197.120	1.00117.88
ATOM	15523	C	LYS	I	119	40.016	127.084	196.151	1.00117.20
ATOM	15524	O	LYS	I	119	40.748	126.116	196.356	1.00117.66
ATOM	15525	CB	LYS	I	119	40.621	127.885	198.463	1.00118.22
ATOM	15526	CG	LYS	I	119	42.146	127.883	198.478	1.00118.36
ATOM	15527	CD	LYS	I	119	42.715	129.292	198.380	1.00117.18
ATOM	15528	CE	LYS	I	119	44.237	129.272	198.362	1.00116.76
ATOM	15529	NZ	LYS	I	119	44.811	130.641	198.249	1.00116.22
ATOM	15530	N	LEU	I	120	39.222	127.168	195.090	1.00116.30
ATOM	15531	CA	LEU	I	120	39.170	126.090	194.113	1.00116.58
ATOM	15532	C	LEU	I	120	39.824	126.461	192.777	1.00116.85
ATOM	15533	O	LEU	I	120	39.597	127.547	192.239	1.00116.83
ATOM	15534	CB	LEU	I	120	37.711	125.663	193.895	1.00115.69
ATOM	15535	CG	LEU	I	120	36.906	125.288	195.148	1.00114.60
ATOM	15536	CD1	LEU	I	120	35.521	124.810	194.736	1.00113.46
ATOM	15537	CD2	LEU	I	120	37.626	124.203	195.937	1.00112.96
ATOM	15538	N	ALA	I	121	40.637	125.545	192.252	1.00117.23
ATOM	15539	CA	ALA	I	121	41.342	125.743	190.983	1.00117.94
ATOM	15540	C	ALA	I	121	40.397	125.705	189.789	1.00118.44
ATOM	15541	O	ALA	I	121	40.063	126.739	189.207	1.00117.30
ATOM	15542	CB	ALA	I	121	42.416	124.676	190.818	1.00117.37
ATOM	15543	N	LEU	I	122	39.984	124.496	189.429	1.00119.70
ATOM	15544	CA	LEU	I	122	39.076	124.270	188.312	1.00121.35
ATOM	15545	C	LEU	I	122	37.729	124.954	188.556	1.00122.80
ATOM	15546	O	LEU	I	122	36.906	124.448	189.318	1.00122.64
ATOM	15547	CB	LEU	I	122	38.859	122.767	188.136	1.00120.42
ATOM	15548	CG	LEU	I	122	38.058	122.306	186.924	1.00119.84
ATOM	15549	CD1	LEU	I	122	38.838	122.601	185.660	1.00119.74
ATOM	15550	CD2	LEU	I	122	37.791	120.824	187.035	1.00119.85
ATOM	15551	N	PRO	I	123	37.483	126.108	187.900	1.00124.65
ATOM	15552	CA	PRO	I	123	36.223	126.847	188.065	1.00126.11
ATOM	15553	C	PRO	I	123	34.988	126.039	187.652	1.00127.70
ATOM	15554	O	PRO	I	123	35.096	125.052	186.919	1.00127.80
ATOM	15555	CB	PRO	I	123	36.432	128.082	187.189	1.00124.74
ATOM	15556	CG	PRO	I	123	37.285	127.557	186.087	1.00123.86
ATOM	15557	CD	PRO	I	123	38.304	126.721	186.839	1.00124.60
ATOM	15558	N	PRO	I	124	33.796	126.452	188.119	1.00128.86
ATOM	15559	CA	PRO	I	124	32.550	125.751	187.787	1.00130.00
ATOM	15560	C	PRO	I	124	32.273	125.755	186.288	1.00131.50

ATOM	15561	O	PRO	I	124	31.278	125.194	185.827	1.00132.32
ATOM	15562	CB	PRO	I	124	31.500	126.529	188.574	1.00129.24
ATOM	15563	CG	PRO	I	124	32.054	127.921	188.572	1.00128.79
ATOM	15564	CD	PRO	I	124	33.514	127.682	188.881	1.00128.46
ATOM	15565	N	ASP	I	125	33.172	126.389	185.538	1.00132.93
ATOM	15566	CA	ASP	I	125	33.056	126.498	184.086	1.00133.87
ATOM	15567	C	ASP	I	125	33.614	125.267	183.362	1.00133.57
ATOM	15568	O	ASP	I	125	33.037	124.797	182.378	1.00133.08
ATOM	15569	CB	ASP	I	125	33.790	127.759	183.600	1.00134.99
ATOM	15570	CG	ASP	I	125	33.170	129.054	184.134	1.00135.39
ATOM	15571	OD1	ASP	I	125	32.914	129.143	185.355	1.00135.50
ATOM	15572	OD2	ASP	I	125	32.953	129.991	183.332	1.00134.72
ATOM	15573	N	GLN	I	126	34.736	124.750	183.857	1.00133.49
ATOM	15574	CA	GLN	I	126	35.379	123.585	183.259	1.00133.44
ATOM	15575	C	GLN	I	126	35.316	122.364	184.174	1.00133.38
ATOM	15576	O	GLN	I	126	36.162	121.470	184.105	1.00132.57
ATOM	15577	CB	GLN	I	126	36.833	123.920	182.922	1.00133.17
ATOM	15578	CG	GLN	I	126	36.981	125.029	181.887	1.00132.58
ATOM	15579	CD	GLN	I	126	37.917	126.140	182.338	1.00133.04
ATOM	15580	OE1	GLN	I	126	38.207	127.068	181.579	1.00132.20
ATOM	15581	NE2	GLN	I	126	38.390	126.053	183.579	1.00132.08
ATOM	15582	N	ALA	I	127	34.298	122.333	185.026	1.00134.55
ATOM	15583	CA	ALA	I	127	34.105	121.234	185.962	1.00135.86
ATOM	15584	C	ALA	I	127	33.096	120.226	185.423	1.00136.52
ATOM	15585	O	ALA	I	127	33.292	119.016	185.542	1.00136.85
ATOM	15586	CB	ALA	I	127	33.635	121.776	187.308	1.00136.37
ATOM	15587	N	ALA	I	128	32.015	120.733	184.833	1.00137.23
ATOM	15588	CA	ALA	I	128	30.970	119.881	184.271	1.00137.82
ATOM	15589	C	ALA	I	128	31.275	119.523	182.814	1.00138.37
ATOM	15590	O	ALA	I	128	30.442	119.726	181.928	1.00139.12
ATOM	15591	CB	ALA	I	128	29.620	120.588	184.367	1.00137.23
ATOM	15592	N	GLU	I	129	32.471	118.983	182.578	1.00138.79
ATOM	15593	CA	GLU	I	129	32.909	118.599	181.235	1.00138.26
ATOM	15594	C	GLU	I	129	34.053	117.589	181.288	1.00137.23
ATOM	15595	O	GLU	I	129	34.666	117.277	180.268	1.00136.59
ATOM	15596	CB	GLU	I	129	33.350	119.845	180.457	1.00139.78
ATOM	15597	CG	GLU	I	129	34.293	120.770	181.227	1.00141.60
ATOM	15598	CD	GLU	I	129	34.435	122.145	180.582	1.00142.80
ATOM	15599	OE1	GLU	I	129	33.406	122.832	180.395	1.00143.70
ATOM	15600	OE2	GLU	I	129	35.576	122.545	180.269	1.00143.69
ATOM	15601	N	LYS	I	130	34.322	117.076	182.483	1.00136.54
ATOM	15602	CA	LYS	I	130	35.391	116.109	182.693	1.00136.07
ATOM	15603	C	LYS	I	130	34.840	114.734	183.065	1.00135.85
ATOM	15604	O	LYS	I	130	35.601	113.791	183.281	1.00135.39
ATOM	15605	CB	LYS	I	130	36.311	116.598	183.809	1.00136.60
ATOM	15606	CG	LYS	I	130	36.844	118.009	183.615	1.00136.32
ATOM	15607	CD	LYS	I	130	37.674	118.437	184.816	1.00136.85
ATOM	15608	CE	LYS	I	130	38.837	117.478	185.064	1.00137.13
ATOM	15609	NZ	LYS	I	130	39.567	117.772	186.329	1.00137.13
ATOM	15610	N	LEU	I	131	33.516	114.636	183.145	1.00135.69
ATOM	15611	CA	LEU	I	131	32.834	113.394	183.501	1.00135.99
ATOM	15612	C	LEU	I	131	33.450	112.177	182.809	1.00137.02
ATOM	15613	O	LEU	I	131	33.268	111.982	181.609	1.00137.48
ATOM	15614	CB	LEU	I	131	31.349	113.499	183.133	1.00134.52
ATOM	15615	CG	LEU	I	131	30.406	112.391	183.613	1.00133.79
ATOM	15616	CD1	LEU	I	131	30.286	112.436	185.128	1.00133.13
ATOM	15617	CD2	LEU	I	131	29.040	112.573	182.978	1.00133.44
ATOM	15618	N	ARG	I	132	34.174	111.358	183.571	1.00137.81
ATOM	15619	CA	ARG	I	132	34.813	110.161	183.027	1.00139.01
ATOM	15620	C	ARG	I	132	33.933	108.924	183.203	1.00139.82
ATOM	15621	O	ARG	I	132	33.208	108.806	184.192	1.00139.82
ATOM	15622	CB	ARG	I	132	36.164	109.935	183.704	1.00140.47

ATOM	15623	CG	ARG	I	132	37.101	111.140	183.650	1.00142.61
ATOM	15624	CD	ARG	I	132	38.548	110.726	183.901	1.00144.37
ATOM	15625	NE	ARG	I	132	38.733	110.136	185.226	1.00144.97
ATOM	15626	CZ	ARG	I	132	39.855	109.556	185.640	1.00144.74
ATOM	15627	NH1	ARG	I	132	40.905	109.480	184.832	1.00144.56
ATOM	15628	NH2	ARG	I	132	39.927	109.055	186.866	1.00144.80
ATOM	15629	N	PHE	I	133	34.014	107.994	182.251	1.00140.93
ATOM	15630	CA	PHE	I	133	33.193	106.780	182.285	1.00141.59
ATOM	15631	C	PHE	I	133	33.939	105.452	182.454	1.00140.39
ATOM	15632	O	PHE	I	133	34.945	105.194	181.791	1.00139.24
ATOM	15633	CB	PHE	I	133	32.326	106.708	181.018	1.00144.45
ATOM	15634	CG	PHE	I	133	31.324	107.831	180.897	1.00146.77
ATOM	15635	CD1	PHE	I	133	31.744	109.154	180.767	1.00147.15
ATOM	15636	CD2	PHE	I	133	29.958	107.567	180.934	1.00147.46
ATOM	15637	CE1	PHE	I	133	30.818	110.193	180.678	1.00146.98
ATOM	15638	CE2	PHE	I	133	29.026	108.601	180.845	1.00147.86
ATOM	15639	CZ	PHE	I	133	29.459	109.917	180.718	1.00147.38
ATOM	15640	N	ARG	I	134	33.416	104.612	183.345	1.00139.72
ATOM	15641	CA	ARG	I	134	33.986	103.295	183.625	1.00139.45
ATOM	15642	C	ARG	I	134	32.862	102.269	183.542	1.00139.49
ATOM	15643	O	ARG	I	134	32.786	101.346	184.357	1.00139.30
ATOM	15644	CB	ARG	I	134	34.595	103.250	185.034	1.00138.96
ATOM	15645	CG	ARG	I	134	35.375	101.968	185.343	1.00136.21
ATOM	15646	CD	ARG	I	134	35.181	101.508	186.784	1.00133.35
ATOM	15647	NE	ARG	I	134	35.535	102.533	187.760	1.00130.40
ATOM	15648	CZ	ARG	I	134	35.400	102.386	189.073	1.00129.90
ATOM	15649	NH1	ARG	I	134	34.921	101.255	189.573	1.00128.64
ATOM	15650	NH2	ARG	I	134	35.733	103.375	189.889	1.00130.13
ATOM	15651	N	ARG	I	135	31.983	102.443	182.561	1.00139.56
ATOM	15652	CA	ARG	I	135	30.852	101.541	182.372	1.00139.61
ATOM	15653	C	ARG	I	135	31.287	100.084	182.523	1.00139.34
ATOM	15654	O	ARG	I	135	32.330	99.677	182.004	1.00139.91
ATOM	15655	CB	ARG	I	135	30.229	101.759	180.987	1.00139.44
ATOM	15656	CG	ARG	I	135	30.909	101.002	179.850	1.00138.58
ATOM	15657	CD	ARG	I	135	30.229	99.661	179.609	1.00136.67
ATOM	15658	NE	ARG	I	135	28.891	99.830	179.047	1.00134.60
ATOM	15659	CZ	ARG	I	135	28.019	98.842	178.883	1.00133.79
ATOM	15660	NH1	ARG	I	135	28.335	97.610	179.252	1.00133.31
ATOM	15661	NH2	ARG	I	135	26.825	99.088	178.360	1.00133.09
ATOM	15662	N	SER	I	136	30.484	99.307	183.242	1.00138.24
ATOM	15663	CA	SER	I	136	30.775	97.897	183.466	1.00136.36
ATOM	15664	C	SER	I	136	29.838	97.060	182.612	1.00135.22
ATOM	15665	O	SER	I	136	29.315	97.537	181.607	1.00134.23
ATOM	15666	CB	SER	I	136	30.581	97.547	184.944	1.00136.29
ATOM	15667	OG	SER	I	136	31.384	98.372	185.771	1.00136.48
ATOM	15668	N	ALA	I	137	29.631	95.810	183.009	1.00134.63
ATOM	15669	CA	ALA	I	137	28.739	94.932	182.271	1.00135.09
ATOM	15670	C	ALA	I	137	27.398	95.647	182.110	1.00135.27
ATOM	15671	O	ALA	I	137	27.146	96.276	181.082	1.00135.81
ATOM	15672	CB	ALA	I	137	28.560	93.621	183.022	1.00135.80
ATOM	15673	N	ASN	I	138	26.542	95.557	183.125	1.00134.71
ATOM	15674	CA	ASN	I	138	25.245	96.223	183.077	1.00133.83
ATOM	15675	C	ASN	I	138	25.242	97.415	184.033	1.00134.22
ATOM	15676	O	ASN	I	138	24.251	97.686	184.711	1.00134.11
ATOM	15677	CB	ASN	I	138	24.114	95.242	183.430	1.00132.17
ATOM	15678	CG	ASN	I	138	24.242	94.667	184.829	1.00130.74
ATOM	15679	OD1	ASN	I	138	24.242	95.398	185.819	1.00131.45
ATOM	15680	ND2	ASN	I	138	24.341	93.348	184.917	1.00128.77
ATOM	15681	N	SER	I	139	26.365	98.127	184.074	1.00134.60
ATOM	15682	CA	SER	I	139	26.512	99.291	184.943	1.00135.34
ATOM	15683	C	SER	I	139	27.218	100.434	184.224	1.00135.34
ATOM	15684	O	SER	I	139	27.844	100.237	183.182	1.00135.45

ATOM	15685	CB	SER	I	139	27.313	98.923	186.198	1.00136.17
ATOM	15686	OG	SER	I	139	26.661	97.923	186.962	1.00137.65
ATOM	15687	N	LEU	I	140	27.109	101.631	184.789	1.00135.36
ATOM	15688	CA	LEU	I	140	27.747	102.811	184.221	1.00135.35
ATOM	15689	C	LEU	I	140	28.440	103.601	185.322	1.00135.16
ATOM	15690	O	LEU	I	140	27.971	104.665	185.736	1.00135.08
ATOM	15691	CB	LEU	I	140	26.718	103.696	183.515	1.00135.22
ATOM	15692	CG	LEU	I	140	26.854	103.754	181.992	1.00134.90
ATOM	15693	CD1	LEU	I	140	25.810	104.697	181.428	1.00134.73
ATOM	15694	CD2	LEU	I	140	28.251	104.221	181.615	1.00133.63
ATOM	15695	N	THR	I	141	29.561	103.066	185.791	1.00134.71
ATOM	15696	CA	THR	I	141	30.335	103.700	186.847	1.00133.72
ATOM	15697	C	THR	I	141	30.881	105.052	186.385	1.00132.74
ATOM	15698	O	THR	I	141	31.975	105.140	185.822	1.00132.84
ATOM	15699	CB	THR	I	141	31.497	102.786	187.292	1.00133.96
ATOM	15700	OG1	THR	I	141	30.973	101.511	187.689	1.00134.35
ATOM	15701	CG2	THR	I	141	32.236	103.398	188.468	1.00134.56
ATOM	15702	N	LEU	I	142	30.097	106.100	186.627	1.00131.24
ATOM	15703	CA	LEU	I	142	30.461	107.466	186.259	1.00129.02
ATOM	15704	C	LEU	I	142	31.322	108.063	187.376	1.00127.60
ATOM	15705	O	LEU	I	142	31.038	107.864	188.557	1.00126.56
ATOM	15706	CB	LEU	I	142	29.193	108.309	186.082	1.00128.54
ATOM	15707	CG	LEU	I	142	28.003	107.647	185.379	1.00127.42
ATOM	15708	CD1	LEU	I	142	26.794	108.570	185.430	1.00127.20
ATOM	15709	CD2	LEU	I	142	28.372	107.318	183.948	1.00127.40
ATOM	15710	N	ILE	I	143	32.367	108.798	187.010	1.00126.20
ATOM	15711	CA	ILE	I	143	33.240	109.394	188.014	1.00124.48
ATOM	15712	C	ILE	I	143	33.561	110.870	187.775	1.00122.41
ATOM	15713	O	ILE	I	143	33.853	111.284	186.654	1.00121.61
ATOM	15714	CB	ILE	I	143	34.561	108.589	188.135	1.00125.97
ATOM	15715	CG1	ILE	I	143	35.454	109.211	189.216	1.00127.31
ATOM	15716	CG2	ILE	I	143	35.261	108.524	186.784	1.00124.68
ATOM	15717	CD1	ILE	I	143	36.669	108.371	189.584	1.00127.84
ATOM	15718	N	ASN	I	144	33.500	111.654	188.849	1.00120.42
ATOM	15719	CA	ASN	I	144	33.778	113.088	188.794	1.00117.87
ATOM	15720	C	ASN	I	144	34.889	113.485	189.763	1.00115.44
ATOM	15721	O	ASN	I	144	34.810	113.212	190.957	1.00113.41
ATOM	15722	CB	ASN	I	144	32.504	113.885	189.110	1.00118.33
ATOM	15723	CG	ASN	I	144	32.794	115.302	189.574	1.00117.68
ATOM	15724	OD1	ASN	I	144	33.561	116.031	188.947	1.00117.99
ATOM	15725	ND2	ASN	I	144	32.169	115.700	190.676	1.00117.21
ATOM	15726	N	PRO	I	145	35.945	114.132	189.246	1.00113.91
ATOM	15727	CA	PRO	I	145	37.090	114.580	190.040	1.00113.04
ATOM	15728	C	PRO	I	145	36.891	115.977	190.628	1.00112.29
ATOM	15729	O	PRO	I	145	37.197	116.224	191.790	1.00110.67
ATOM	15730	CB	PRO	I	145	38.226	114.546	189.028	1.00113.34
ATOM	15731	CG	PRO	I	145	37.542	115.035	187.782	1.00112.52
ATOM	15732	CD	PRO	I	145	36.222	114.278	187.802	1.00113.44
ATOM	15733	N	THR	I	146	36.381	116.887	189.806	1.00112.35
ATOM	15734	CA	THR	I	146	36.146	118.264	190.220	1.00111.92
ATOM	15735	C	THR	I	146	35.477	118.293	191.585	1.00112.21
ATOM	15736	O	THR	I	146	34.745	117.374	191.941	1.00112.18
ATOM	15737	CB	THR	I	146	35.228	118.990	189.231	1.00110.97
ATOM	15738	OG1	THR	I	146	33.876	118.576	189.454	1.00110.60
ATOM	15739	CG2	THR	I	146	35.610	118.648	187.801	1.00111.36
ATOM	15740	N	PRO	I	147	35.727	119.352	192.370	1.00112.97
ATOM	15741	CA	PRO	I	147	35.152	119.522	193.710	1.00112.91
ATOM	15742	C	PRO	I	147	33.693	120.011	193.756	1.00112.71
ATOM	15743	O	PRO	I	147	33.247	120.541	194.778	1.00111.42
ATOM	15744	CB	PRO	I	147	36.110	120.510	194.363	1.00113.86
ATOM	15745	CG	PRO	I	147	36.527	121.369	193.210	1.00113.54
ATOM	15746	CD	PRO	I	147	36.790	120.347	192.128	1.00112.94

ATOM	15747	N	TYR	I	148	32.961	119.832	192.654	1.00112.93
ATOM	15748	CA	TYR	I	148	31.555	120.245	192.567	1.00112.47
ATOM	15749	C	TYR	I	148	30.685	119.037	192.230	1.00112.80
ATOM	15750	O	TYR	I	148	31.162	118.065	191.644	1.00112.99
ATOM	15751	CB	TYR	I	148	31.354	121.300	191.468	1.00110.37
ATOM	15752	CG	TYR	I	148	32.432	122.358	191.394	1.00110.16
ATOM	15753	CD1	TYR	I	148	33.691	122.069	190.861	1.00109.47
ATOM	15754	CD2	TYR	I	148	32.202	123.647	191.868	1.00109.95
ATOM	15755	CE1	TYR	I	148	34.693	123.039	190.804	1.00107.82
ATOM	15756	CE2	TYR	I	148	33.196	124.622	191.816	1.00108.58
ATOM	15757	CZ	TYR	I	148	34.438	124.312	191.285	1.00107.51
ATOM	15758	OH	TYR	I	148	35.420	125.275	191.246	1.00105.19
ATOM	15759	N	TYR	I	149	29.410	119.093	192.597	1.00112.86
ATOM	15760	CA	TYR	I	149	28.507	117.993	192.285	1.00113.46
ATOM	15761	C	TYR	I	149	27.907	118.190	190.894	1.00115.62
ATOM	15762	O	TYR	I	149	26.869	118.838	190.746	1.00116.50
ATOM	15763	CB	TYR	I	149	27.367	117.911	193.295	1.00110.55
ATOM	15764	CG	TYR	I	149	27.730	117.371	194.654	1.00107.57
ATOM	15765	CD1	TYR	I	149	28.147	118.221	195.672	1.00107.02
ATOM	15766	CD2	TYR	I	149	27.601	116.013	194.940	1.00105.91
ATOM	15767	CE1	TYR	I	149	28.419	117.734	196.950	1.00106.18
ATOM	15768	CE2	TYR	I	149	27.871	115.513	196.211	1.00104.49
ATOM	15769	CZ	TYR	I	149	28.278	116.380	197.215	1.00105.22
ATOM	15770	OH	TYR	I	149	28.534	115.906	198.487	1.00102.63
ATOM	15771	N	LEU	I	150	28.557	117.632	189.879	1.00117.65
ATOM	15772	CA	LEU	I	150	28.076	117.749	188.507	1.00119.98
ATOM	15773	C	LEU	I	150	26.745	117.027	188.354	1.00121.80
ATOM	15774	O	LEU	I	150	26.715	115.851	187.985	1.00121.74
ATOM	15775	CB	LEU	I	150	29.075	117.130	187.532	1.00120.93
ATOM	15776	CG	LEU	I	150	30.545	117.521	187.667	1.00122.88
ATOM	15777	CD1	LEU	I	150	31.365	116.754	186.635	1.00122.55
ATOM	15778	CD2	LEU	I	150	30.698	119.024	187.485	1.00124.03
ATOM	15779	N	THR	I	151	25.649	117.723	188.635	1.00123.95
ATOM	15780	CA	THR	I	151	24.327	117.120	188.513	1.00125.08
ATOM	15781	C	THR	I	151	24.150	116.580	187.094	1.00126.34
ATOM	15782	O	THR	I	151	23.914	117.342	186.156	1.00126.52
ATOM	15783	CB	THR	I	151	23.218	118.147	188.805	1.00124.56
ATOM	15784	OG1	THR	I	151	23.415	118.699	190.113	1.00124.39
ATOM	15785	CG2	THR	I	151	21.851	117.484	188.740	1.00123.44
ATOM	15786	N	VAL	I	152	24.280	115.263	186.945	1.00127.28
ATOM	15787	CA	VAL	I	152	24.144	114.610	185.646	1.00128.32
ATOM	15788	C	VAL	I	152	22.682	114.501	185.226	1.00129.85
ATOM	15789	O	VAL	I	152	21.940	113.673	185.751	1.00129.67
ATOM	15790	CB	VAL	I	152	24.754	113.193	185.674	1.00127.69
ATOM	15791	CG1	VAL	I	152	24.603	112.532	184.311	1.00127.77
ATOM	15792	CG2	VAL	I	152	26.218	113.269	186.070	1.00126.74
ATOM	15793	N	THR	I	153	22.278	115.335	184.272	1.00132.04
ATOM	15794	CA	THR	I	153	20.900	115.336	183.790	1.00134.74
ATOM	15795	C	THR	I	153	20.751	114.684	182.421	1.00136.34
ATOM	15796	O	THR	I	153	21.620	114.819	181.555	1.00136.14
ATOM	15797	CB	THR	I	153	20.327	116.771	183.702	1.00134.90
ATOM	15798	OG1	THR	I	153	18.986	116.718	183.198	1.00134.81
ATOM	15799	CG2	THR	I	153	21.174	117.634	182.776	1.00134.52
ATOM	15800	N	GLU	I	154	19.636	113.977	182.242	1.00137.99
ATOM	15801	CA	GLU	I	154	19.331	113.294	180.990	1.00139.00
ATOM	15802	C	GLU	I	154	20.461	112.337	180.617	1.00139.96
ATOM	15803	O	GLU	I	154	20.952	112.359	179.486	1.00140.33
ATOM	15804	CB	GLU	I	154	19.135	114.329	179.882	1.00138.53
ATOM	15805	CG	GLU	I	154	18.352	115.552	180.332	1.00138.19
ATOM	15806	CD	GLU	I	154	18.330	116.645	179.286	1.00138.13
ATOM	15807	OE1	GLU	I	154	18.706	116.366	178.129	1.00138.38
ATOM	15808	OE2	GLU	I	154	17.933	117.781	179.621	1.00137.44

ATOM	15809	N	LEU	I	155	20.864	111.500	181.574	1.00140.46
ATOM	15810	CA	LEU	I	155	21.946	110.540	181.364	1.00140.91
ATOM	15811	C	LEU	I	155	21.605	109.538	180.269	1.00141.10
ATOM	15812	O	LEU	I	155	21.167	108.422	180.546	1.00141.44
ATOM	15813	CB	LEU	I	155	22.255	109.792	182.667	1.00141.06
ATOM	15814	CG	LEU	I	155	23.416	108.790	182.633	1.00140.63
ATOM	15815	CD1	LEU	I	155	24.701	109.501	182.232	1.00139.93
ATOM	15816	CD2	LEU	I	155	23.574	108.136	183.999	1.00139.86
ATOM	15817	N	ASN	I	156	21.818	109.946	179.024	1.00141.28
ATOM	15818	CA	ASN	I	156	21.529	109.096	177.879	1.00141.66
ATOM	15819	C	ASN	I	156	22.801	108.496	177.299	1.00141.96
ATOM	15820	O	ASN	I	156	23.911	108.794	177.744	1.00142.40
ATOM	15821	CB	ASN	I	156	20.820	109.902	176.786	1.00141.46
ATOM	15822	CG	ASN	I	156	19.499	110.477	177.248	1.00141.16
ATOM	15823	OD1	ASN	I	156	18.562	109.741	177.556	1.00141.27
ATOM	15824	ND2	ASN	I	156	19.417	111.801	177.301	1.00141.00
ATOM	15825	N	ALA	I	157	22.616	107.642	176.299	1.00141.66
ATOM	15826	CA	ALA	I	157	23.714	106.992	175.602	1.00140.96
ATOM	15827	C	ALA	I	157	23.309	107.001	174.138	1.00140.76
ATOM	15828	O	ALA	I	157	23.655	106.098	173.374	1.00140.59
ATOM	15829	CB	ALA	I	157	23.885	105.570	176.093	1.00140.41
ATOM	15830	N	GLY	I	158	22.560	108.038	173.767	1.00140.53
ATOM	15831	CA	GLY	I	158	22.080	108.173	172.405	1.00140.54
ATOM	15832	C	GLY	I	158	21.021	107.128	172.119	1.00140.29
ATOM	15833	O	GLY	I	158	20.519	107.018	170.997	1.00140.38
ATOM	15834	N	THR	I	159	20.678	106.358	173.147	1.00139.32
ATOM	15835	CA	THR	I	159	19.685	105.304	173.020	1.00137.49
ATOM	15836	C	THR	I	159	18.939	105.067	174.330	1.00136.63
ATOM	15837	O	THR	I	159	17.824	105.553	174.519	1.00135.63
ATOM	15838	CB	THR	I	159	20.344	103.972	172.580	1.00137.21
ATOM	15839	OG1	THR	I	159	21.404	103.640	173.487	1.00135.53
ATOM	15840	CG2	THR	I	159	20.905	104.088	171.163	1.00135.85
ATOM	15841	N	ARG	I	160	19.573	104.325	175.233	1.00136.35
ATOM	15842	CA	ARG	I	160	18.983	103.981	176.526	1.00136.31
ATOM	15843	C	ARG	I	160	19.155	105.086	177.574	1.00135.87
ATOM	15844	O	ARG	I	160	20.275	105.377	178.006	1.00135.64
ATOM	15845	CB	ARG	I	160	19.618	102.681	177.043	1.00136.42
ATOM	15846	CG	ARG	I	160	18.792	101.890	178.059	1.00135.86
ATOM	15847	CD	ARG	I	160	17.712	101.058	177.375	1.00135.46
ATOM	15848	NE	ARG	I	160	17.081	100.110	178.291	1.00135.46
ATOM	15849	CZ	ARG	I	160	16.193	99.191	177.922	1.00135.17
ATOM	15850	NH1	ARG	I	160	15.827	99.092	176.651	1.00135.65
ATOM	15851	NH2	ARG	I	160	15.675	98.367	178.823	1.00134.41
ATOM	15852	N	VAL	I	161	18.043	105.695	177.979	1.00135.17
ATOM	15853	CA	VAL	I	161	18.072	106.746	178.992	1.00134.83
ATOM	15854	C	VAL	I	161	18.160	106.090	180.367	1.00134.28
ATOM	15855	O	VAL	I	161	17.514	105.071	180.625	1.00134.14
ATOM	15856	CB	VAL	I	161	16.804	107.633	178.935	1.00134.93
ATOM	15857	CG1	VAL	I	161	15.566	106.790	179.187	1.00135.76
ATOM	15858	CG2	VAL	I	161	16.906	108.752	179.964	1.00134.78
ATOM	15859	N	LEU	I	162	18.960	106.678	181.250	1.00133.32
ATOM	15860	CA	LEU	I	162	19.139	106.125	182.582	1.00132.09
ATOM	15861	C	LEU	I	162	18.714	107.101	183.664	1.00131.61
ATOM	15862	O	LEU	I	162	17.972	108.048	183.406	1.00131.52
ATOM	15863	CB	LEU	I	162	20.605	105.738	182.787	1.00131.04
ATOM	15864	CG	LEU	I	162	21.262	104.985	181.627	1.00130.51
ATOM	15865	CD1	LEU	I	162	22.673	104.588	182.019	1.00129.21
ATOM	15866	CD2	LEU	I	162	20.435	103.761	181.266	1.00129.75
ATOM	15867	N	GLU	I	163	19.198	106.851	184.877	1.00131.70
ATOM	15868	CA	GLU	I	163	18.900	107.677	186.043	1.00131.64
ATOM	15869	C	GLU	I	163	19.909	108.820	186.188	1.00132.06
ATOM	15870	O	GLU	I	163	21.106	108.654	185.943	1.00132.01

ATOM	15871	CB	GLU	I	163	18.901	106.799	187.309	1.00130.09
ATOM	15872	CG	GLU	I	163	18.781	107.535	188.649	1.00127.47
ATOM	15873	CD	GLU	I	163	17.432	108.203	188.856	1.00126.37
ATOM	15874	OE1	GLU	I	163	16.394	107.549	188.614	1.00124.40
ATOM	15875	OE2	GLU	I	163	17.410	109.381	189.276	1.00125.71
ATOM	15876	N	ASN	I	164	19.407	109.987	186.573	1.00132.70
ATOM	15877	CA	ASN	I	164	20.247	111.158	186.771	1.00132.56
ATOM	15878	C	ASN	I	164	20.810	111.060	188.187	1.00132.61
ATOM	15879	O	ASN	I	164	20.067	111.171	189.167	1.00132.74
ATOM	15880	CB	ASN	I	164	19.418	112.443	186.627	1.00132.05
ATOM	15881	CG	ASN	I	164	18.611	112.483	185.338	1.00131.24
ATOM	15882	OD1	ASN	I	164	19.154	112.333	184.244	1.00130.18
ATOM	15883	ND2	ASN	I	164	17.305	112.693	185.466	1.00130.88
ATOM	15884	N	ALA	I	165	22.116	110.839	188.294	1.00132.27
ATOM	15885	CA	ALA	I	165	22.757	110.723	189.600	1.00131.55
ATOM	15886	C	ALA	I	165	23.546	111.980	189.959	1.00130.40
ATOM	15887	O	ALA	I	165	23.841	112.809	189.097	1.00130.19
ATOM	15888	CB	ALA	I	165	23.676	109.501	189.622	1.00132.35
ATOM	15889	N	LEU	I	166	23.879	112.112	191.241	1.00129.12
ATOM	15890	CA	LEU	I	166	24.640	113.254	191.737	1.00127.70
ATOM	15891	C	LEU	I	166	26.110	112.871	191.916	1.00127.31
ATOM	15892	O	LEU	I	166	26.563	112.654	193.038	1.00127.30
ATOM	15893	CB	LEU	I	166	24.062	113.728	193.080	1.00126.12
ATOM	15894	CG	LEU	I	166	24.789	114.880	193.783	1.00124.16
ATOM	15895	CD1	LEU	I	166	24.777	116.095	192.882	1.00124.05
ATOM	15896	CD2	LEU	I	166	24.132	115.199	195.114	1.00120.88
ATOM	15897	N	VAL	I	167	26.850	112.783	190.814	1.00127.72
ATOM	15898	CA	VAL	I	167	28.263	112.420	190.882	1.00128.16
ATOM	15899	C	VAL	I	167	28.966	113.409	191.807	1.00128.34
ATOM	15900	O	VAL	I	167	29.179	114.569	191.453	1.00127.79
ATOM	15901	CB	VAL	I	167	28.936	112.451	189.488	1.00128.59
ATOM	15902	CG1	VAL	I	167	30.254	111.697	189.541	1.00129.01
ATOM	15903	CG2	VAL	I	167	28.019	111.833	188.443	1.00127.99
ATOM	15904	N	PRO	I	168	29.338	112.951	193.012	1.00129.06
ATOM	15905	CA	PRO	I	168	30.013	113.755	194.034	1.00129.14
ATOM	15906	C	PRO	I	168	31.420	114.246	193.698	1.00129.26
ATOM	15907	O	PRO	I	168	32.074	113.738	192.784	1.00128.77
ATOM	15908	CB	PRO	I	168	29.997	112.833	195.251	1.00129.05
ATOM	15909	CG	PRO	I	168	30.156	111.486	194.634	1.00129.12
ATOM	15910	CD	PRO	I	168	29.201	111.552	193.460	1.00129.59
ATOM	15911	N	PRO	I	169	31.894	115.258	194.443	1.00129.51
ATOM	15912	CA	PRO	I	169	33.216	115.864	194.282	1.00130.26
ATOM	15913	C	PRO	I	169	34.337	114.834	194.377	1.00131.32
ATOM	15914	O	PRO	I	169	34.477	114.149	195.395	1.00130.89
ATOM	15915	CB	PRO	I	169	33.266	116.875	195.422	1.00129.68
ATOM	15916	CG	PRO	I	169	31.853	117.327	195.509	1.00129.00
ATOM	15917	CD	PRO	I	169	31.100	116.018	195.426	1.00129.24
ATOM	15918	N	MET	I	170	35.129	114.737	193.312	1.00132.76
ATOM	15919	CA	MET	I	170	36.248	113.802	193.248	1.00133.81
ATOM	15920	C	MET	I	170	35.764	112.356	193.295	1.00134.01
ATOM	15921	O	MET	I	170	36.390	111.460	192.725	1.00134.28
ATOM	15922	CB	MET	I	170	37.238	114.090	194.387	1.00134.17
ATOM	15923	CG	MET	I	170	38.188	115.250	194.087	1.00133.54
ATOM	15924	SD	MET	I	170	38.989	116.012	195.517	1.00134.40
ATOM	15925	CE	MET	I	170	38.250	117.651	195.486	1.00134.30
ATOM	15926	N	GLY	I	171	34.637	112.136	193.961	1.00133.89
ATOM	15927	CA	GLY	I	171	34.091	110.800	194.051	1.00134.61
ATOM	15928	C	GLY	I	171	33.479	110.378	192.731	1.00135.37
ATOM	15929	O	GLY	I	171	33.975	110.736	191.661	1.00134.92
ATOM	15930	N	GLU	I	172	32.393	109.617	192.810	1.00136.44
ATOM	15931	CA	GLU	I	172	31.700	109.136	191.624	1.00137.28
ATOM	15932	C	GLU	I	172	30.394	108.435	191.994	1.00138.47

ATOM	15933	O	GLU	I	172	30.078	108.258	193.172	1.00137.73
ATOM	15934	CB	GLU	I	172	32.604	108.173	190.847	1.00136.43
ATOM	15935	CG	GLU	I	172	32.986	106.903	191.595	1.00136.19
ATOM	15936	CD	GLU	I	172	33.935	106.020	190.804	1.00135.76
ATOM	15937	OE1	GLU	I	172	33.592	105.648	189.664	1.00135.66
ATOM	15938	OE2	GLU	I	172	35.025	105.695	191.321	1.00135.75
ATOM	15939	N	SER	I	173	29.639	108.046	190.974	1.00140.25
ATOM	15940	CA	SER	I	173	28.366	107.355	191.156	1.00142.42
ATOM	15941	C	SER	I	173	27.975	106.698	189.833	1.00143.43
ATOM	15942	O	SER	I	173	28.596	106.961	188.803	1.00144.53
ATOM	15943	CB	SER	I	173	27.284	108.343	191.596	1.00142.80
ATOM	15944	OG	SER	I	173	27.599	108.913	192.856	1.00144.12
ATOM	15945	N	THR	I	174	26.952	105.850	189.850	1.00 20.00
ATOM	15946	CG2	THR	I	174	28.805	103.959	188.539	1.00 20.00
ATOM	15947	OG1	THR	I	174	26.912	102.994	189.603	1.00 20.00
ATOM	15948	CB	THR	I	174	27.284	103.819	188.511	1.00 20.00
ATOM	15949	CA	THR	I	174	26.538	105.175	188.627	1.00 20.00
ATOM	15950	C	THR	I	174	25.047	104.905	188.543	1.00 20.00
ATOM	15951	O	THR	I	174	24.296	105.148	189.487	1.00 20.00
ATOM	15952	N	VAL	I	175	24.637	104.391	187.390	1.00144.76
ATOM	15953	CA	VAL	I	175	23.244	104.065	187.129	1.00145.83
ATOM	15954	C	VAL	I	175	23.151	102.715	186.421	1.00146.80
ATOM	15955	O	VAL	I	175	24.002	102.377	185.592	1.00146.58
ATOM	15956	CB	VAL	I	175	22.582	105.139	186.242	1.00145.55
ATOM	15957	CG1	VAL	I	175	21.139	104.756	185.951	1.00145.05
ATOM	15958	CG2	VAL	I	175	22.654	106.491	186.930	1.00144.82
ATOM	15959	N	LYS	I	176	22.115	101.949	186.758	1.00147.41
ATOM	15960	CA	LYS	I	176	21.903	100.638	186.161	1.00147.67
ATOM	15961	C	LYS	I	176	21.841	100.769	184.646	1.00147.23
ATOM	15962	O	LYS	I	176	20.843	101.232	184.093	1.00147.21
ATOM	15963	CB	LYS	I	176	20.604	100.016	186.688	1.00148.61
ATOM	15964	CG	LYS	I	176	20.292	98.630	186.120	1.00150.46
ATOM	15965	CD	LYS	I	176	21.392	97.610	186.424	1.00151.19
ATOM	15966	CE	LYS	I	176	21.489	97.285	187.911	1.00151.45
ATOM	15967	NZ	LYS	I	176	21.869	98.457	188.751	1.00151.20
ATOM	15968	N	LEU	I	177	22.923	100.366	183.988	1.00147.00
ATOM	15969	CA	LEU	I	177	23.024	100.428	182.534	1.00147.23
ATOM	15970	C	LEU	I	177	22.377	99.198	181.897	1.00147.83
ATOM	15971	O	LEU	I	177	22.976	98.121	181.864	1.00148.48
ATOM	15972	CB	LEU	I	177	24.498	100.520	182.131	1.00145.60
ATOM	15973	CG	LEU	I	177	24.882	100.476	180.653	1.00143.67
ATOM	15974	CD1	LEU	I	177	24.023	101.430	179.848	1.00142.75
ATOM	15975	CD2	LEU	I	177	26.348	100.838	180.529	1.00142.68
ATOM	15976	N	PRO	I	178	21.142	99.348	181.377	1.00147.96
ATOM	15977	CA	PRO	I	178	20.382	98.269	180.737	1.00147.82
ATOM	15978	C	PRO	I	178	21.152	97.474	179.684	1.00148.07
ATOM	15979	O	PRO	I	178	20.615	96.527	179.110	1.00148.18
ATOM	15980	CB	PRO	I	178	19.186	99.006	180.139	1.00147.57
ATOM	15981	CG	PRO	I	178	18.966	100.116	181.111	1.00147.30
ATOM	15982	CD	PRO	I	178	20.374	100.605	181.343	1.00147.76
ATOM	15983	N	SER	I	179	22.405	97.854	179.441	1.00148.21
ATOM	15984	CA	SER	I	179	23.244	97.187	178.447	1.00147.91
ATOM	15985	C	SER	I	179	22.582	97.353	177.082	1.00148.25
ATOM	15986	O	SER	I	179	22.893	96.636	176.126	1.00148.32
ATOM	15987	CB	SER	I	179	23.397	95.698	178.782	1.00147.36
ATOM	15988	OG	SER	I	179	24.025	95.514	180.040	1.00146.25
ATOM	15989	N	ASP	I	180	21.664	98.314	177.014	1.00148.13
ATOM	15990	CA	ASP	I	180	20.916	98.621	175.798	1.00147.37
ATOM	15991	C	ASP	I	180	21.276	100.033	175.331	1.00146.46
ATOM	15992	O	ASP	I	180	20.730	100.531	174.342	1.00146.29
ATOM	15993	CB	ASP	I	180	19.407	98.543	176.078	1.00147.42
ATOM	15994	CG	ASP	I	180	18.992	97.228	176.731	1.00147.15

ATOM	15995	OD1	ASP	I	180	19.833	96.311	176.824	1.00147.18
ATOM	15996	OD2	ASP	I	180	17.820	97.110	177.149	1.00146.38
ATOM	15997	N	ALA	I	181	22.196	100.668	176.054	1.00145.01
ATOM	15998	CA	ALA	I	181	22.636	102.026	175.745	1.00143.40
ATOM	15999	C	ALA	I	181	23.782	102.047	174.735	1.00141.82
ATOM	16000	O	ALA	I	181	24.276	103.114	174.361	1.00140.97
ATOM	16001	CB	ALA	I	181	23.057	102.731	177.025	1.00143.42
ATOM	16002	N	GLY	I	182	24.195	100.860	174.300	1.00140.03
ATOM	16003	CA	GLY	I	182	25.274	100.752	173.337	1.00136.92
ATOM	16004	C	GLY	I	182	26.610	101.178	173.905	1.00135.18
ATOM	16005	O	GLY	I	182	27.257	100.422	174.630	1.00134.76
ATOM	16006	N	SER	I	183	27.024	102.396	173.571	1.00133.56
ATOM	16007	CA	SER	I	183	28.291	102.937	174.045	1.00132.09
ATOM	16008	C	SER	I	183	28.374	104.448	173.808	1.00132.64
ATOM	16009	O	SER	I	183	29.330	105.098	174.239	1.00132.62
ATOM	16010	CB	SER	I	183	29.458	102.236	173.342	1.00129.78
ATOM	16011	OG	SER	I	183	29.502	100.857	173.661	1.00125.09
ATOM	16012	N	ASN	I	184	27.365	105.001	173.136	1.00132.62
ATOM	16013	CA	ASN	I	184	27.325	106.432	172.830	1.00132.55
ATOM	16014	C	ASN	I	184	27.332	107.331	174.063	1.00132.39
ATOM	16015	O	ASN	I	184	26.278	107.676	174.598	1.00132.53
ATOM	16016	CB	ASN	I	184	26.093	106.763	171.984	1.00132.70
ATOM	16017	CG	ASN	I	184	25.958	108.252	171.713	1.00133.47
ATOM	16018	OD1	ASN	I	184	26.852	108.872	171.140	1.00134.38
ATOM	16019	ND2	ASN	I	184	24.840	108.833	172.128	1.00133.39
ATOM	16020	N	ILE	I	185	28.525	107.721	174.497	1.00131.97
ATOM	16021	CA	ILE	I	185	28.670	108.580	175.664	1.00131.21
ATOM	16022	C	ILE	I	185	28.080	109.966	175.383	1.00130.85
ATOM	16023	O	ILE	I	185	28.662	110.758	174.640	1.00130.43
ATOM	16024	CB	ILE	I	185	30.160	108.745	176.050	1.00131.29
ATOM	16025	CG1	ILE	I	185	30.884	107.393	175.993	1.00129.95
ATOM	16026	CG2	ILE	I	185	30.266	109.331	177.446	1.00131.50
ATOM	16027	CD1	ILE	I	185	30.400	106.374	177.002	1.00128.18
ATOM	16028	N	THR	I	186	26.920	110.245	175.973	1.00130.62
ATOM	16029	CA	THR	I	186	26.248	111.535	175.806	1.00130.16
ATOM	16030	C	THR	I	186	25.580	111.921	177.123	1.00130.33
ATOM	16031	O	THR	I	186	24.902	111.100	177.741	1.00130.01
ATOM	16032	CB	THR	I	186	25.169	111.479	174.701	1.00129.38
ATOM	16033	OG1	THR	I	186	25.784	111.154	173.450	1.00128.61
ATOM	16034	CG2	THR	I	186	24.463	112.823	174.574	1.00128.31
ATOM	16035	N	TYR	I	187	25.773	113.166	177.552	1.00130.63
ATOM	16036	CA	TYR	I	187	25.186	113.625	178.810	1.00130.76
ATOM	16037	C	TYR	I	187	24.967	115.137	178.861	1.00130.31
ATOM	16038	O	TYR	I	187	25.309	115.864	177.925	1.00130.46
ATOM	16039	CB	TYR	I	187	26.075	113.196	179.989	1.00131.02
ATOM	16040	CG	TYR	I	187	27.422	113.895	180.053	1.00130.82
ATOM	16041	CD1	TYR	I	187	27.536	115.192	180.561	1.00130.53
ATOM	16042	CD2	TYR	I	187	28.580	113.266	179.588	1.00130.29
ATOM	16043	CE1	TYR	I	187	28.766	115.845	180.602	1.00130.05
ATOM	16044	CE2	TYR	I	187	29.815	113.911	179.626	1.00129.82
ATOM	16045	CZ	TYR	I	187	29.899	115.200	180.133	1.00129.74
ATOM	16046	OH	TYR	I	187	31.114	115.848	180.167	1.00129.20
ATOM	16047	N	ARG	I	188	24.396	115.593	179.972	1.00129.19
ATOM	16048	CA	ARG	I	188	24.119	117.007	180.201	1.00128.06
ATOM	16049	C	ARG	I	188	24.115	117.242	181.711	1.00127.54
ATOM	16050	O	ARG	I	188	23.787	116.333	182.474	1.00127.85
ATOM	16051	CB	ARG	I	188	22.761	117.377	179.597	1.00127.51
ATOM	16052	CG	ARG	I	188	22.716	117.260	178.080	1.00125.96
ATOM	16053	CD	ARG	I	188	21.308	117.416	177.545	1.00125.76
ATOM	16054	NE	ARG	I	188	20.721	118.715	177.865	1.00126.28
ATOM	16055	CZ	ARG	I	188	21.183	119.878	177.417	1.00125.66
ATOM	16056	NH1	ARG	I	188	22.246	119.908	176.627	1.00124.91

ATOM	16057	NH2	ARG	I	188	20.573	121.009	177.744	1.00124.77
ATOM	16058	N	THR	I	189	24.482	118.448	182.145	1.00126.33
ATOM	16059	CA	THR	I	189	24.517	118.751	183.577	1.00124.85
ATOM	16060	C	THR	I	189	23.916	120.103	183.952	1.00122.97
ATOM	16061	O	THR	I	189	23.921	121.050	183.169	1.00122.65
ATOM	16062	CB	THR	I	189	25.960	118.716	184.131	1.00126.27
ATOM	16063	OG1	THR	I	189	26.582	119.990	183.930	1.00127.42
ATOM	16064	CG2	THR	I	189	26.783	117.644	183.421	1.00127.49
ATOM	16065	N	ILE	I	190	23.412	120.182	185.176	1.00121.58
ATOM	16066	CA	ILE	I	190	22.806	121.400	185.688	1.00119.41
ATOM	16067	C	ILE	I	190	23.843	122.162	186.513	1.00119.46
ATOM	16068	O	ILE	I	190	24.732	121.555	187.115	1.00119.16
ATOM	16069	CB	ILE	I	190	21.582	121.061	186.555	1.00117.03
ATOM	16070	CG1	ILE	I	190	20.617	120.191	185.746	1.00113.71
ATOM	16071	CG2	ILE	I	190	20.895	122.336	187.015	1.00117.15
ATOM	16072	CD1	ILE	I	190	19.444	119.696	186.527	1.00110.89
ATOM	16073	N	ASN	I	191	23.719	123.488	186.538	1.00119.09
ATOM	16074	CA	ASN	I	191	24.655	124.349	187.261	1.00118.36
ATOM	16075	C	ASN	I	191	24.044	125.175	188.395	1.00117.67
ATOM	16076	O	ASN	I	191	22.903	124.950	188.798	1.00117.58
ATOM	16077	CB	ASN	I	191	25.345	125.283	186.269	1.00118.76
ATOM	16078	CG	ASN	I	191	24.369	125.913	185.294	1.00118.89
ATOM	16079	OD1	ASN	I	191	23.427	126.599	185.695	1.00117.68
ATOM	16080	ND2	ASN	I	191	24.587	125.679	184.003	1.00118.51
ATOM	16081	N	ASP	I	192	24.826	126.132	188.896	1.00117.35
ATOM	16082	CA	ASP	I	192	24.426	127.023	189.994	1.00117.30
ATOM	16083	C	ASP	I	192	23.098	127.725	189.734	1.00116.17
ATOM	16084	O	ASP	I	192	22.205	127.745	190.583	1.00115.60
ATOM	16085	CB	ASP	I	192	25.493	128.100	190.218	1.00117.97
ATOM	16086	CG	ASP	I	192	26.883	127.526	190.364	1.00119.03
ATOM	16087	OD1	ASP	I	192	27.009	126.284	190.442	1.00120.58
ATOM	16088	OD2	ASP	I	192	27.848	128.323	190.400	1.00118.64
ATOM	16089	N	TYR	I	193	22.999	128.317	188.552	1.00114.81
ATOM	16090	CA	TYR	I	193	21.816	129.047	188.126	1.00113.84
ATOM	16091	C	TYR	I	193	20.651	128.080	187.932	1.00115.24
ATOM	16092	O	TYR	I	193	19.565	128.267	188.490	1.00113.85
ATOM	16093	CB	TYR	I	193	22.140	129.769	186.816	1.00110.96
ATOM	16094	CG	TYR	I	193	23.443	130.547	186.875	1.00107.30
ATOM	16095	CD1	TYR	I	193	23.929	131.035	188.088	1.00105.21
ATOM	16096	CD2	TYR	I	193	24.194	130.785	185.724	1.00105.15
ATOM	16097	CE1	TYR	I	193	25.125	131.737	188.155	1.00103.74
ATOM	16098	CE2	TYR	I	193	25.396	131.487	185.782	1.00102.49
ATOM	16099	CZ	TYR	I	193	25.854	131.959	187.002	1.00103.04
ATOM	16100	OH	TYR	I	193	27.041	132.649	187.083	1.00102.58
ATOM	16101	N	GLY	I	194	20.903	127.040	187.144	1.00117.44
ATOM	16102	CA	GLY	I	194	19.891	126.039	186.862	1.00118.76
ATOM	16103	C	GLY	I	194	19.793	125.820	185.367	1.00119.27
ATOM	16104	O	GLY	I	194	18.699	125.683	184.825	1.00118.42
ATOM	16105	N	ALA	I	195	20.945	125.789	184.702	1.00121.12
ATOM	16106	CA	ALA	I	195	20.994	125.602	183.255	1.00123.50
ATOM	16107	C	ALA	I	195	21.709	124.319	182.837	1.00124.74
ATOM	16108	O	ALA	I	195	22.780	123.982	183.352	1.00124.50
ATOM	16109	CB	ALA	I	195	21.667	126.807	182.597	1.00124.00
ATOM	16110	N	LEU	I	196	21.101	123.610	181.892	1.00126.43
ATOM	16111	CA	LEU	I	196	21.662	122.366	181.380	1.00128.77
ATOM	16112	C	LEU	I	196	22.922	122.668	180.577	1.00130.04
ATOM	16113	O	LEU	I	196	22.957	123.632	179.814	1.00130.73
ATOM	16114	CB	LEU	I	196	20.655	121.663	180.462	1.00127.99
ATOM	16115	CG	LEU	I	196	19.256	121.294	180.958	1.00127.62
ATOM	16116	CD1	LEU	I	196	18.473	120.680	179.811	1.00127.07
ATOM	16117	CD2	LEU	I	196	19.346	120.319	182.119	1.00128.36
ATOM	16118	N	THR	I	197	23.955	121.850	180.749	1.00131.55

ATOM	16119	CA	THR	I	197	25.188	122.042	180.002	1.00133.31
ATOM	16120	C	THR	I	197	25.011	121.353	178.653	1.00134.96
ATOM	16121	O	THR	I	197	24.267	120.379	178.543	1.00134.67
ATOM	16122	CB	THR	I	197	26.408	121.437	180.737	1.00133.19
ATOM	16123	OG1	THR	I	197	26.232	120.022	180.894	1.00132.68
ATOM	16124	CG2	THR	I	197	26.577	122.093	182.101	1.00133.02
ATOM	16125	N	PRO	I	198	25.683	121.854	177.606	1.00137.05
ATOM	16126	CA	PRO	I	198	25.555	121.243	176.279	1.00138.77
ATOM	16127	C	PRO	I	198	25.939	119.762	176.266	1.00140.70
ATOM	16128	O	PRO	I	198	26.621	119.281	177.177	1.00140.84
ATOM	16129	CB	PRO	I	198	26.477	122.105	175.416	1.00138.58
ATOM	16130	CG	PRO	I	198	27.531	122.553	176.393	1.00137.85
ATOM	16131	CD	PRO	I	198	26.707	122.915	177.599	1.00137.31
ATOM	16132	N	LYS	I	199	25.486	119.043	175.239	1.00142.69
ATOM	16133	CA	LYS	I	199	25.784	117.616	175.100	1.00144.74
ATOM	16134	C	LYS	I	199	27.263	117.385	174.807	1.00146.16
ATOM	16135	O	LYS	I	199	27.635	116.980	173.704	1.00146.42
ATOM	16136	CB	LYS	I	199	24.954	116.990	173.974	1.00144.13
ATOM	16137	CG	LYS	I	199	23.480	116.812	174.278	1.00143.65
ATOM	16138	CD	LYS	I	199	22.796	116.070	173.142	1.00143.37
ATOM	16139	CE	LYS	I	199	21.318	115.865	173.413	1.00143.57
ATOM	16140	NZ	LYS	I	199	20.654	115.128	172.301	1.00142.75
ATOM	16141	N	MET	I	200	28.103	117.641	175.801	1.00147.63
ATOM	16142	CA	MET	I	200	29.535	117.458	175.648	1.00148.71
ATOM	16143	C	MET	I	200	29.807	115.967	175.499	1.00149.18
ATOM	16144	O	MET	I	200	28.896	115.190	175.207	1.00148.87
ATOM	16145	CB	MET	I	200	30.257	118.015	176.876	1.00150.40
ATOM	16146	CG	MET	I	200	29.726	119.374	177.315	1.00152.19
ATOM	16147	SD	MET	I	200	30.657	120.129	178.654	1.00154.61
ATOM	16148	CE	MET	I	200	31.654	121.324	177.741	1.00152.77
ATOM	16149	N	THR	I	201	31.057	115.566	175.698	1.00150.26
ATOM	16150	CA	THR	I	201	31.421	114.157	175.585	1.00151.25
ATOM	16151	C	THR	I	201	31.943	113.641	176.934	1.00151.93
ATOM	16152	O	THR	I	201	32.398	114.420	177.777	1.00152.07
ATOM	16153	CB	THR	I	201	32.506	113.941	174.494	1.00151.25
ATOM	16154	OG1	THR	I	201	32.256	114.813	173.383	1.00150.33
ATOM	16155	CG2	THR	I	201	32.479	112.497	173.994	1.00149.83
ATOM	16156	N	GLY	I	202	31.866	112.327	177.134	1.00152.19
ATOM	16157	CA	GLY	I	202	32.331	111.738	178.377	1.00152.43
ATOM	16158	C	GLY	I	202	33.825	111.481	178.398	1.00152.63
ATOM	16159	O	GLY	I	202	34.314	110.569	177.726	1.00151.96
ATOM	16160	N	VAL	I	203	34.544	112.287	179.180	1.00153.30
ATOM	16161	CA	VAL	I	203	36.000	112.185	179.313	1.00153.52
ATOM	16162	C	VAL	I	203	36.431	110.851	179.917	1.00154.48
ATOM	16163	O	VAL	I	203	36.902	110.805	181.048	1.00154.36
ATOM	16164	CB	VAL	I	203	36.563	113.328	180.206	1.00152.40
ATOM	16165	CG1	VAL	I	203	38.087	113.274	180.235	1.00150.80
ATOM	16166	CG2	VAL	I	203	36.084	114.676	179.691	1.00152.03
ATOM	16167	N	MET	I	204	36.276	109.775	179.148	1.00155.36
ATOM	16168	CA	MET	I	204	36.640	108.428	179.587	1.00155.77
ATOM	16169	C	MET	I	204	37.930	108.430	180.420	1.00156.33
ATOM	16170	O	MET	I	204	38.769	109.327	180.290	1.00156.38
ATOM	16171	CB	MET	I	204	36.811	107.518	178.366	1.00155.48
ATOM	16172	CG	MET	I	204	36.475	106.055	178.612	1.00155.23
ATOM	16173	SD	MET	I	204	34.700	105.771	178.812	1.00155.28
ATOM	16174	CE	MET	I	204	34.211	105.389	177.120	1.00153.90
ATOM	16175	N	GLU	I	205	38.083	107.420	181.272	1.00156.77
ATOM	16176	CA	GLU	I	205	39.256	107.306	182.139	1.00157.13
ATOM	16177	C	GLU	I	205	40.558	107.069	181.376	1.00156.70
ATOM	16178	O	GLU	I	205	41.468	107.918	181.489	1.00156.20
ATOM	16179	CB	GLU	I	205	39.044	106.177	183.151	1.00158.00
ATOM	16180	CG	GLU	I	205	38.683	104.841	182.519	1.00159.28

ATOM	16181	CD	GLU	I	205	38.452	103.749	183.546	1.00159.82
ATOM	16182	OE1	GLU	I	205	38.616	104.019	184.757	1.00159.63
ATOM	16183	OE2	GLU	I	205	38.108	102.618	183.139	1.00160.30
ATOM	16184	OXT	GLU	I	205	40.653	106.035	180.681	1.00156.17
ATOM	16185	N	PHE	J	1	29.615	169.463	167.395	1.00 66.53
ATOM	16186	CA	PHE	J	1	29.173	168.560	168.493	1.00 67.72
ATOM	16187	C	PHE	J	1	29.821	167.202	168.299	1.00 70.57
ATOM	16188	O	PHE	J	1	29.955	166.715	167.168	1.00 70.98
ATOM	16189	CB	PHE	J	1	27.643	168.434	168.476	1.00 65.27
ATOM	16190	CG	PHE	J	1	27.075	167.517	169.538	1.00 58.46
ATOM	16191	CD1	PHE	J	1	26.979	166.150	169.322	1.00 55.40
ATOM	16192	CD2	PHE	J	1	26.582	168.033	170.729	1.00 56.95
ATOM	16193	CE1	PHE	J	1	26.398	165.317	170.268	1.00 52.44
ATOM	16194	CE2	PHE	J	1	26.003	167.204	171.678	1.00 53.31
ATOM	16195	CZ	PHE	J	1	25.909	165.845	171.446	1.00 49.88
ATOM	16196	N	ALA	J	2	30.236	166.597	169.409	1.00 73.71
ATOM	16197	CA	ALA	J	2	30.873	165.283	169.367	1.00 74.47
ATOM	16198	C	ALA	J	2	30.749	164.525	170.692	1.00 73.29
ATOM	16199	O	ALA	J	2	30.626	165.128	171.766	1.00 68.89
ATOM	16200	CB	ALA	J	2	32.345	165.429	168.969	1.00 74.15
ATOM	16201	N	CYS	J	3	30.776	163.196	170.587	1.00 74.19
ATOM	16202	CA	CYS	J	3	30.674	162.301	171.738	1.00 74.16
ATOM	16203	C	CYS	J	3	31.791	161.268	171.720	1.00 74.55
ATOM	16204	O	CYS	J	3	32.372	160.980	170.667	1.00 72.19
ATOM	16205	CB	CYS	J	3	29.360	161.540	171.708	1.00 72.95
ATOM	16206	SG	CYS	J	3	27.886	162.548	171.436	1.00 70.86
ATOM	16207	N	LYS	J	4	32.067	160.696	172.889	1.00 75.41
ATOM	16208	CA	LYS	J	4	33.096	159.673	173.017	1.00 77.33
ATOM	16209	C	LYS	J	4	32.680	158.697	174.098	1.00 77.02
ATOM	16210	O	LYS	J	4	32.103	159.090	175.107	1.00 75.32
ATOM	16211	CB	LYS	J	4	34.467	160.306	173.349	1.00 79.33
ATOM	16212	CG	LYS	J	4	34.636	160.929	174.752	1.00 81.38
ATOM	16213	CD	LYS	J	4	35.329	159.964	175.726	1.00 81.95
ATOM	16214	CE	LYS	J	4	35.802	160.650	177.012	1.00 80.28
ATOM	16215	NZ	LYS	J	4	34.698	161.169	177.861	1.00 80.80
ATOM	16216	N	THR	J	5	32.959	157.420	173.878	1.00 79.71
ATOM	16217	CA	THR	J	5	32.611	156.400	174.853	1.00 84.95
ATOM	16218	C	THR	J	5	33.629	156.396	176.005	1.00 86.92
ATOM	16219	O	THR	J	5	34.762	156.857	175.844	1.00 88.91
ATOM	16220	CB	THR	J	5	32.568	155.003	174.194	1.00 85.93
ATOM	16221	OG1	THR	J	5	31.866	154.097	175.053	1.00 89.43
ATOM	16222	CG2	THR	J	5	33.978	154.470	173.956	1.00 84.41
ATOM	16223	N	ALA	J	6	33.224	155.880	177.163	1.00 87.94
ATOM	16224	CA	ALA	J	6	34.105	155.821	178.328	1.00 88.77
ATOM	16225	C	ALA	J	6	35.211	154.781	178.142	1.00 89.70
ATOM	16226	O	ALA	J	6	36.060	154.607	179.013	1.00 89.82
ATOM	16227	CB	ALA	J	6	33.293	155.498	179.581	1.00 86.92
ATOM	16228	N	ASN	J	7	35.196	154.095	177.005	1.00 91.48
ATOM	16229	CA	ASN	J	7	36.194	153.070	176.713	1.00 92.97
ATOM	16230	C	ASN	J	7	37.166	153.584	175.658	1.00 93.37
ATOM	16231	O	ASN	J	7	37.969	152.831	175.105	1.00 92.48
ATOM	16232	CB	ASN	J	7	35.502	151.794	176.221	1.00 94.66
ATOM	16233	CG	ASN	J	7	36.373	150.560	176.370	1.00 94.92
ATOM	16234	OD1	ASN	J	7	37.360	150.391	175.654	1.00 96.70
ATOM	16235	ND2	ASN	J	7	36.011	149.691	177.310	1.00 94.17
ATOM	16236	N	GLY	J	8	37.076	154.878	175.375	1.00 94.15
ATOM	16237	CA	GLY	J	8	37.965	155.480	174.405	1.00 95.49
ATOM	16238	C	GLY	J	8	37.378	155.704	173.029	1.00 95.68
ATOM	16239	O	GLY	J	8	37.673	156.712	172.390	1.00 96.54
ATOM	16240	N	THR	J	9	36.556	154.771	172.563	1.00 95.79
ATOM	16241	CA	THR	J	9	35.953	154.895	171.240	1.00 95.74
ATOM	16242	C	THR	J	9	35.081	156.145	171.162	1.00 95.27

ATOM	16243	O	THR	J	9	34.277	156.407	172.058	1.00	94.86
ATOM	16244	CB	THR	J	9	35.109	153.657	170.910	1.00	95.94
ATOM	16245	OG1	THR	J	9	35.869	152.479	171.211	1.00	97.39
ATOM	16246	CG2	THR	J	9	34.729	153.647	169.430	1.00	95.01
ATOM	16247	N	ALA	J	10	35.243	156.918	170.091	1.00	94.01
ATOM	16248	CA	ALA	J	10	34.474	158.146	169.936	1.00	93.19
ATOM	16249	C	ALA	J	10	33.844	158.343	168.562	1.00	93.35
ATOM	16250	O	ALA	J	10	34.231	157.710	167.574	1.00	93.39
ATOM	16251	CB	ALA	J	10	35.346	159.340	170.273	1.00	91.95
ATOM	16252	N	ILE	J	11	32.864	159.242	168.525	1.00	93.44
ATOM	16253	CA	ILE	J	11	32.136	159.574	167.308	1.00	92.82
ATOM	16254	C	ILE	J	11	32.387	161.041	166.969	1.00	91.27
ATOM	16255	O	ILE	J	11	31.929	161.944	167.678	1.00	91.24
ATOM	16256	CB	ILE	J	11	30.622	159.365	167.496	1.00	94.79
ATOM	16257	CG1	ILE	J	11	30.331	157.901	167.858	1.00	97.06
ATOM	16258	CG2	ILE	J	11	29.897	159.756	166.236	1.00	95.60
ATOM	16259	CD1	ILE	J	11	28.857	157.579	168.081	1.00	94.99
ATOM	16260	N	PRO	J	12	33.111	161.295	165.868	1.00	88.95
ATOM	16261	CA	PRO	J	12	33.446	162.646	165.406	1.00	86.53
ATOM	16262	C	PRO	J	12	32.237	163.519	165.068	1.00	84.55
ATOM	16263	O	PRO	J	12	31.091	163.099	165.198	1.00	84.04
ATOM	16264	CB	PRO	J	12	34.322	162.377	164.188	1.00	86.29
ATOM	16265	CG	PRO	J	12	33.716	161.129	163.632	1.00	87.08
ATOM	16266	CD	PRO	J	12	33.522	160.288	164.873	1.00	88.37
ATOM	16267	N	ILE	J	13	32.512	164.747	164.640	1.00	82.81
ATOM	16268	CA	ILE	J	13	31.462	165.679	164.263	1.00	79.59
ATOM	16269	C	ILE	J	13	30.760	165.069	163.059	1.00	79.88
ATOM	16270	O	ILE	J	13	31.317	164.205	162.386	1.00	79.23
ATOM	16271	CB	ILE	J	13	32.050	167.058	163.876	1.00	76.90
ATOM	16272	CG1	ILE	J	13	32.919	167.592	165.018	1.00	73.06
ATOM	16273	CG2	ILE	J	13	30.930	168.039	163.563	1.00	76.80
ATOM	16274	CD1	ILE	J	13	33.402	169.001	164.824	1.00	68.56
ATOM	16275	N	GLY	J	14	29.538	165.511	162.787	1.00	81.00
ATOM	16276	CA	GLY	J	14	28.801	164.964	161.660	1.00	80.08
ATOM	16277	C	GLY	J	14	28.152	163.648	162.035	1.00	78.03
ATOM	16278	O	GLY	J	14	27.627	162.930	161.185	1.00	75.66
ATOM	16279	N	GLY	J	15	28.185	163.341	163.327	1.00	78.28
ATOM	16280	CA	GLY	J	15	27.613	162.103	163.811	1.00	79.31
ATOM	16281	C	GLY	J	15	28.643	161.004	163.677	1.00	80.43
ATOM	16282	O	GLY	J	15	29.841	161.276	163.580	1.00	80.11
ATOM	16283	N	GLY	J	16	28.185	159.759	163.672	1.00	80.90
ATOM	16284	CA	GLY	J	16	29.106	158.654	163.534	1.00	82.67
ATOM	16285	C	GLY	J	16	28.514	157.310	163.895	1.00	83.86
ATOM	16286	O	GLY	J	16	27.384	156.992	163.516	1.00	83.80
ATOM	16287	N	SER	J	17	29.286	156.521	164.633	1.00	84.21
ATOM	16288	CA	SER	J	17	28.857	155.195	165.034	1.00	86.89
ATOM	16289	C	SER	J	17	29.914	154.572	165.929	1.00	89.00
ATOM	16290	O	SER	J	17	31.104	154.601	165.604	1.00	89.74
ATOM	16291	CB	SER	J	17	28.658	154.327	163.795	1.00	86.26
ATOM	16292	OG	SER	J	17	29.843	154.279	163.020	1.00	87.75
ATOM	16293	N	ALA	J	18	29.476	154.004	167.051	1.00	90.87
ATOM	16294	CA	ALA	J	18	30.396	153.383	167.999	1.00	91.93
ATOM	16295	C	ALA	J	18	29.783	152.215	168.763	1.00	91.98
ATOM	16296	O	ALA	J	18	28.570	152.139	168.953	1.00	91.79
ATOM	16297	CB	ALA	J	18	30.911	154.430	168.983	1.00	91.33
ATOM	16298	N	ASN	J	19	30.646	151.310	169.204	1.00	91.85
ATOM	16299	CA	ASN	J	19	30.224	150.138	169.950	1.00	92.60
ATOM	16300	C	ASN	J	19	30.407	150.367	171.441	1.00	93.33
ATOM	16301	O	ASN	J	19	31.518	150.607	171.912	1.00	94.27
ATOM	16302	CB	ASN	J	19	31.055	148.929	169.531	1.00	93.05
ATOM	16303	CG	ASN	J	19	30.588	148.310	168.234	1.00	93.35
ATOM	16304	OD1	ASN	J	19	30.268	149.005	167.266	1.00	90.72

ATOM	16305	ND2	ASN	J	19	30.567	146.983	168.202	1.00	94.35
ATOM	16306	N	VAL	J	20	29.318	150.287	172.188	1.00	93.41
ATOM	16307	CA	VAL	J	20	29.392	150.473	173.626	1.00	94.20
ATOM	16308	C	VAL	J	20	29.316	149.099	174.298	1.00	95.21
ATOM	16309	O	VAL	J	20	28.230	148.636	174.660	1.00	95.02
ATOM	16310	CB	VAL	J	20	28.230	151.350	174.118	1.00	94.45
ATOM	16311	CG1	VAL	J	20	28.511	151.859	175.523	1.00	93.76
ATOM	16312	CG2	VAL	J	20	28.020	152.498	173.153	1.00	95.23
ATOM	16313	N	TYR	J	21	30.466	148.444	174.454	1.00	94.97
ATOM	16314	CA	TYR	J	21	30.510	147.123	175.080	1.00	94.12
ATOM	16315	C	TYR	J	21	30.311	147.233	176.589	1.00	95.15
ATOM	16316	O	TYR	J	21	31.242	147.017	177.358	1.00	95.87
ATOM	16317	CB	TYR	J	21	31.852	146.443	174.809	1.00	90.71
ATOM	16318	CG	TYR	J	21	32.265	146.441	173.362	1.00	88.65
ATOM	16319	CD1	TYR	J	21	32.904	147.543	172.796	1.00	87.11
ATOM	16320	CD2	TYR	J	21	31.996	145.344	172.548	1.00	89.36
ATOM	16321	CE1	TYR	J	21	33.266	147.551	171.448	1.00	87.93
ATOM	16322	CE2	TYR	J	21	32.349	145.342	171.198	1.00	88.95
ATOM	16323	CZ	TYR	J	21	32.979	146.446	170.652	1.00	88.79
ATOM	16324	OH	TYR	J	21	33.277	146.451	169.304	1.00	88.88
ATOM	16325	N	VAL	J	22	29.099	147.566	177.016	1.00	95.89
ATOM	16326	CA	VAL	J	22	28.825	147.702	178.440	1.00	97.76
ATOM	16327	C	VAL	J	22	28.723	146.351	179.136	1.00	99.03
ATOM	16328	O	VAL	J	22	28.505	145.323	178.490	1.00	99.22
ATOM	16329	CB	VAL	J	22	27.515	148.473	178.689	1.00	98.24
ATOM	16330	CG1	VAL	J	22	27.667	149.912	178.239	1.00	98.06
ATOM	16331	CG2	VAL	J	22	26.368	147.796	177.952	1.00	97.52
ATOM	16332	N	ASN	J	23	28.890	146.365	180.457	1.00	100.16
ATOM	16333	CA	ASN	J	23	28.803	145.150	181.259	1.00	100.37
ATOM	16334	C	ASN	J	23	27.344	144.937	181.625	1.00	101.19
ATOM	16335	O	ASN	J	23	26.524	145.852	181.502	1.00	101.90
ATOM	16336	CB	ASN	J	23	29.640	145.274	182.538	1.00	99.81
ATOM	16337	CG	ASN	J	23	31.110	145.529	182.254	1.00	101.11
ATOM	16338	OD1	ASN	J	23	31.701	144.906	181.370	1.00	101.75
ATOM	16339	ND2	ASN	J	23	31.711	146.441	183.011	1.00	101.61
ATOM	16340	N	LEU	J	24	27.021	143.730	182.079	1.00	101.03
ATOM	16341	CA	LEU	J	24	25.651	143.408	182.452	1.00	99.63
ATOM	16342	C	LEU	J	24	25.593	142.562	183.721	1.00	99.58
ATOM	16343	O	LEU	J	24	26.321	141.575	183.853	1.00	98.24
ATOM	16344	CB	LEU	J	24	24.975	142.663	181.300	1.00	98.81
ATOM	16345	CG	LEU	J	24	25.047	143.359	179.941	1.00	95.99
ATOM	16346	CD1	LEU	J	24	24.518	142.440	178.854	1.00	93.79
ATOM	16347	CD2	LEU	J	24	24.252	144.649	180.009	1.00	95.41
ATOM	16348	N	ALA	J	25	24.730	142.963	184.652	1.00	99.74
ATOM	16349	CA	ALA	J	25	24.551	142.238	185.905	1.00	100.51
ATOM	16350	C	ALA	J	25	24.250	140.791	185.528	1.00	101.75
ATOM	16351	O	ALA	J	25	23.187	140.493	184.987	1.00	103.73
ATOM	16352	CB	ALA	J	25	23.388	142.831	186.689	1.00	98.92
ATOM	16353	N	PRO	J	26	25.191	139.874	185.795	1.00	101.98
ATOM	16354	CA	PRO	J	26	25.025	138.453	185.472	1.00	101.14
ATOM	16355	C	PRO	J	26	23.867	137.688	186.124	1.00	100.66
ATOM	16356	O	PRO	J	26	23.583	136.565	185.718	1.00	101.04
ATOM	16357	CB	PRO	J	26	26.382	137.859	185.843	1.00	101.68
ATOM	16358	CG	PRO	J	26	27.323	139.001	185.598	1.00	101.94
ATOM	16359	CD	PRO	J	26	26.573	140.146	186.226	1.00	102.48
ATOM	16360	N	VAL	J	27	23.198	138.265	187.121	1.00	99.84
ATOM	16361	CA	VAL	J	27	22.095	137.544	187.765	1.00	99.40
ATOM	16362	C	VAL	J	27	20.882	138.386	188.182	1.00	100.18
ATOM	16363	O	VAL	J	27	20.911	139.093	189.196	1.00	99.21
ATOM	16364	CB	VAL	J	27	22.593	136.762	189.003	1.00	98.37
ATOM	16365	CG1	VAL	J	27	21.437	136.032	189.657	1.00	97.06
ATOM	16366	CG2	VAL	J	27	23.670	135.767	188.593	1.00	98.41

ATOM	16367	N	VAL	J	28	19.807	138.274	187.398	1.00100.83
ATOM	16368	CA	VAL	J	28	18.562	139.004	187.646	1.00 99.15
ATOM	16369	C	VAL	J	28	17.396	138.025	187.813	1.00 98.99
ATOM	16370	O	VAL	J	28	17.519	136.842	187.503	1.00 97.03
ATOM	16371	CB	VAL	J	28	18.210	139.945	186.465	1.00 98.13
ATOM	16372	CG1	VAL	J	28	17.375	141.115	186.968	1.00 95.95
ATOM	16373	CG2	VAL	J	28	19.479	140.414	185.759	1.00 95.72
ATOM	16374	N	ASN	J	29	16.264	138.526	188.298	1.00100.03
ATOM	16375	CA	ASN	J	29	15.077	137.694	188.481	1.00101.63
ATOM	16376	C	ASN	J	29	13.784	138.459	188.209	1.00100.84
ATOM	16377	O	ASN	J	29	13.816	139.618	187.798	1.00101.52
ATOM	16378	CB	ASN	J	29	15.050	137.097	189.892	1.00104.58
ATOM	16379	CG	ASN	J	29	15.878	135.821	190.005	1.00107.05
ATOM	16380	OD1	ASN	J	29	15.597	134.824	189.334	1.00108.75
ATOM	16381	ND2	ASN	J	29	16.900	135.846	190.860	1.00106.68
ATOM	16382	N	VAL	J	30	12.652	137.802	188.444	1.00 99.96
ATOM	16383	CA	VAL	J	30	11.332	138.394	188.203	1.00100.05
ATOM	16384	C	VAL	J	30	11.029	139.698	188.946	1.00 99.26
ATOM	16385	O	VAL	J	30	10.934	139.727	190.176	1.00 99.00
ATOM	16386	CB	VAL	J	30	10.201	137.379	188.523	1.00100.39
ATOM	16387	CG1	VAL	J	30	8.835	138.052	188.420	1.00 99.27
ATOM	16388	CG2	VAL	J	30	10.274	136.210	187.558	1.00100.60
ATOM	16389	N	GLY	J	31	10.850	140.769	188.177	1.00 97.94
ATOM	16390	CA	GLY	J	31	10.553	142.063	188.761	1.00 95.95
ATOM	16391	C	GLY	J	31	11.814	142.877	188.932	1.00 94.66
ATOM	16392	O	GLY	J	31	11.865	144.052	188.567	1.00 93.64
ATOM	16393	N	GLN	J	32	12.838	142.235	189.485	1.00 94.17
ATOM	16394	CA	GLN	J	32	14.132	142.869	189.723	1.00 93.76
ATOM	16395	C	GLN	J	32	14.673	143.482	188.420	1.00 92.15
ATOM	16396	O	GLN	J	32	14.793	142.789	187.400	1.00 91.98
ATOM	16397	CB	GLN	J	32	15.120	141.827	190.274	1.00 94.61
ATOM	16398	CG	GLN	J	32	16.304	142.419	191.021	1.00 95.71
ATOM	16399	CD	GLN	J	32	17.314	141.371	191.437	1.00 97.15
ATOM	16400	OE1	GLN	J	32	17.938	140.720	190.597	1.00 99.29
ATOM	16401	NE2	GLN	J	32	17.483	141.201	192.742	1.00 99.01
ATOM	16402	N	ASN	J	33	15.004	144.775	188.463	1.00 88.47
ATOM	16403	CA	ASN	J	33	15.509	145.479	187.288	1.00 84.19
ATOM	16404	C	ASN	J	33	16.913	145.139	186.840	1.00 81.75
ATOM	16405	O	ASN	J	33	17.767	144.776	187.642	1.00 81.71
ATOM	16406	CB	ASN	J	33	15.406	146.982	187.486	1.00 83.56
ATOM	16407	CG	ASN	J	33	14.061	147.520	187.070	1.00 85.52
ATOM	16408	OD1	ASN	J	33	13.062	147.338	187.767	1.00 87.69
ATOM	16409	ND2	ASN	J	33	14.019	148.170	185.911	1.00 85.86
ATOM	16410	N	LEU	J	34	17.135	145.280	185.537	1.00 79.42
ATOM	16411	CA	LEU	J	34	18.417	144.992	184.908	1.00 78.97
ATOM	16412	C	LEU	J	34	19.010	146.259	184.300	1.00 80.08
ATOM	16413	O	LEU	J	34	19.600	146.226	183.219	1.00 80.65
ATOM	16414	CB	LEU	J	34	18.217	143.932	183.825	1.00 78.19
ATOM	16415	CG	LEU	J	34	19.323	143.642	182.812	1.00 79.00
ATOM	16416	CD1	LEU	J	34	20.661	143.494	183.512	1.00 81.86
ATOM	16417	CD2	LEU	J	34	18.965	142.388	182.045	1.00 78.78
ATOM	16418	N	VAL	J	35	18.858	147.372	185.016	1.00 81.02
ATOM	16419	CA	VAL	J	35	19.345	148.683	184.577	1.00 81.31
ATOM	16420	C	VAL	J	35	20.615	148.653	183.723	1.00 80.23
ATOM	16421	O	VAL	J	35	21.560	147.927	184.023	1.00 80.24
ATOM	16422	CB	VAL	J	35	19.595	149.616	185.787	1.00 82.16
ATOM	16423	CG1	VAL	J	35	19.881	151.039	185.297	1.00 83.22
ATOM	16424	CG2	VAL	J	35	18.389	149.598	186.727	1.00 81.37
ATOM	16425	N	VAL	J	36	20.617	149.451	182.657	1.00 79.47
ATOM	16426	CA	VAL	J	36	21.751	149.546	181.742	1.00 79.35
ATOM	16427	C	VAL	J	36	22.030	151.017	181.440	1.00 79.07
ATOM	16428	O	VAL	J	36	21.752	151.496	180.341	1.00 80.28

ATOM	16429	CB	VAL	J	36	21.456	148.816	180.418	1.00	79.83
ATOM	16430	CG1	VAL	J	36	22.647	148.953	179.459	1.00	78.35
ATOM	16431	CG2	VAL	J	36	21.142	147.351	180.701	1.00	79.91
ATOM	16432	N	ASP	J	37	22.585	151.723	182.422	1.00	77.72
ATOM	16433	CA	ASP	J	37	22.886	153.148	182.286	1.00	76.18
ATOM	16434	C	ASP	J	37	24.108	153.450	181.435	1.00	75.02
ATOM	16435	O	ASP	J	37	25.170	152.860	181.622	1.00	74.63
ATOM	16436	CB	ASP	J	37	23.081	153.783	183.664	1.00	74.22
ATOM	16437	CG	ASP	J	37	23.375	155.269	183.584	1.00	72.23
ATOM	16438	OD1	ASP	J	37	23.253	155.852	182.482	1.00	68.95
ATOM	16439	OD2	ASP	J	37	23.721	155.851	184.630	1.00	72.40
ATOM	16440	N	LEU	J	38	23.960	154.394	180.514	1.00	74.34
ATOM	16441	CA	LEU	J	38	25.073	154.754	179.659	1.00	75.37
ATOM	16442	C	LEU	J	38	25.569	156.187	179.885	1.00	76.06
ATOM	16443	O	LEU	J	38	26.534	156.632	179.251	1.00	75.12
ATOM	16444	CB	LEU	J	38	24.708	154.506	178.194	1.00	73.28
ATOM	16445	CG	LEU	J	38	24.249	153.064	177.972	1.00	68.25
ATOM	16446	CD1	LEU	J	38	22.756	153.022	178.182	1.00	69.27
ATOM	16447	CD2	LEU	J	38	24.607	152.574	176.579	1.00	65.65
ATOM	16448	N	SER	J	39	24.911	156.907	180.791	1.00	76.32
ATOM	16449	CA	SER	J	39	25.356	158.253	181.120	1.00	77.79
ATOM	16450	C	SER	J	39	26.529	157.957	182.044	1.00	78.34
ATOM	16451	O	SER	J	39	26.640	158.497	183.146	1.00	78.67
ATOM	16452	CB	SER	J	39	24.275	159.044	181.870	1.00	78.56
ATOM	16453	OG	SER	J	39	24.153	158.618	183.216	1.00	81.69
ATOM	16454	N	THR	J	40	27.386	157.058	181.567	1.00	79.16
ATOM	16455	CA	THR	J	40	28.572	156.599	182.275	1.00	78.88
ATOM	16456	C	THR	J	40	29.330	155.721	181.287	1.00	78.14
ATOM	16457	O	THR	J	40	30.310	155.071	181.630	1.00	79.53
ATOM	16458	CB	THR	J	40	28.192	155.749	183.515	1.00	78.05
ATOM	16459	OG1	THR	J	40	27.411	156.539	184.422	1.00	76.53
ATOM	16460	CG2	THR	J	40	29.440	155.255	184.228	1.00	77.61
ATOM	16461	N	GLN	J	41	28.857	155.705	180.050	1.00	77.42
ATOM	16462	CA	GLN	J	41	29.484	154.907	179.012	1.00	79.15
ATOM	16463	C	GLN	J	41	29.604	155.717	177.743	1.00	79.42
ATOM	16464	O	GLN	J	41	30.260	155.296	176.787	1.00	77.95
ATOM	16465	CB	GLN	J	41	28.666	153.648	178.745	1.00	81.75
ATOM	16466	CG	GLN	J	41	28.735	152.630	179.867	1.00	84.28
ATOM	16467	CD	GLN	J	41	30.109	152.005	179.987	1.00	86.21
ATOM	16468	OE1	GLN	J	41	30.334	151.135	180.829	1.00	86.43
ATOM	16469	NE2	GLN	J	41	31.040	152.443	179.137	1.00	86.57
ATOM	16470	N	ILE	J	42	28.957	156.881	177.744	1.00	79.51
ATOM	16471	CA	ILE	J	42	28.990	157.790	176.604	1.00	78.65
ATOM	16472	C	ILE	J	42	28.823	159.236	177.054	1.00	78.43
ATOM	16473	O	ILE	J	42	27.931	159.553	177.842	1.00	77.40
ATOM	16474	CB	ILE	J	42	27.868	157.494	175.595	1.00	79.54
ATOM	16475	CG1	ILE	J	42	27.995	156.069	175.053	1.00	78.75
ATOM	16476	CG2	ILE	J	42	27.931	158.501	174.458	1.00	77.04
ATOM	16477	CD1	ILE	J	42	26.813	155.635	174.213	1.00	76.79
ATOM	16478	N	PHE	J	43	29.688	160.108	176.546	1.00	79.24
ATOM	16479	CA	PHE	J	43	29.631	161.525	176.874	1.00	78.30
ATOM	16480	C	PHE	J	43	29.752	162.356	175.608	1.00	77.89
ATOM	16481	O	PHE	J	43	30.330	161.911	174.610	1.00	77.04
ATOM	16482	CB	PHE	J	43	30.762	161.896	177.823	1.00	80.21
ATOM	16483	CG	PHE	J	43	30.824	161.039	179.043	1.00	83.11
ATOM	16484	CD1	PHE	J	43	31.256	159.720	178.960	1.00	82.15
ATOM	16485	CD2	PHE	J	43	30.413	161.538	180.277	1.00	84.55
ATOM	16486	CE1	PHE	J	43	31.273	158.909	180.089	1.00	85.65
ATOM	16487	CE2	PHE	J	43	30.427	160.734	181.415	1.00	85.70
ATOM	16488	CZ	PHE	J	43	30.856	159.418	181.323	1.00	86.08
ATOM	16489	N	CYS	J	44	29.200	163.563	175.656	1.00	76.98
ATOM	16490	CA	CYS	J	44	29.249	164.475	174.523	1.00	76.97

ATOM	16491	C	CYS	J	44	29.513	165.880	175.028	1.00	77.84
ATOM	16492	O	CYS	J	44	29.136	166.226	176.147	1.00	77.72
ATOM	16493	CB	CYS	J	44	27.921	164.492	173.775	1.00	74.87
ATOM	16494	SG	CYS	J	44	27.200	162.888	173.321	1.00	73.49
ATOM	16495	N	HIS	J	45	30.157	166.691	174.198	1.00	80.39
ATOM	16496	CA	HIS	J	45	30.437	168.075	174.557	1.00	81.63
ATOM	16497	C	HIS	J	45	30.122	168.955	173.352	1.00	82.69
ATOM	16498	O	HIS	J	45	29.890	168.457	172.244	1.00	82.61
ATOM	16499	CB	HIS	J	45	31.901	168.245	174.970	1.00	81.47
ATOM	16500	CG	HIS	J	45	32.868	168.067	173.846	1.00	82.77
ATOM	16501	ND1	HIS	J	45	32.844	166.968	173.014	1.00	83.54
ATOM	16502	CD2	HIS	J	45	33.887	168.846	173.414	1.00	83.93
ATOM	16503	CE1	HIS	J	45	33.807	167.080	172.117	1.00	85.32
ATOM	16504	NE2	HIS	J	45	34.455	168.209	172.338	1.00	85.50
ATOM	16505	N	ASN	J	46	30.121	170.265	173.571	1.00	83.75
ATOM	16506	CA	ASN	J	46	29.814	171.224	172.516	1.00	83.47
ATOM	16507	C	ASN	J	46	31.083	171.882	171.974	1.00	83.93
ATOM	16508	O	ASN	J	46	31.957	172.284	172.751	1.00	84.30
ATOM	16509	CB	ASN	J	46	28.866	172.281	173.078	1.00	81.54
ATOM	16510	CG	ASN	J	46	28.030	172.930	172.015	1.00	79.55
ATOM	16511	OD1	ASN	J	46	27.614	172.281	171.056	1.00	78.69
ATOM	16512	ND2	ASN	J	46	27.750	174.213	172.190	1.00	78.17
ATOM	16513	N	ASP	J	47	31.185	171.995	170.650	1.00	83.30
ATOM	16514	CA	ASP	J	47	32.367	172.605	170.040	1.00	83.71
ATOM	16515	C	ASP	J	47	32.362	174.133	170.011	1.00	83.15
ATOM	16516	O	ASP	J	47	33.424	174.760	170.072	1.00	81.37
ATOM	16517	CB	ASP	J	47	32.581	172.071	168.624	1.00	85.59
ATOM	16518	CG	ASP	J	47	33.177	170.677	168.616	1.00	88.57
ATOM	16519	OD1	ASP	J	47	34.039	170.400	169.480	1.00	88.04
ATOM	16520	OD2	ASP	J	47	32.798	169.865	167.741	1.00	90.56
ATOM	16521	N	TYR	J	48	31.173	174.723	169.903	1.00	82.62
ATOM	16522	CA	TYR	J	48	31.026	176.176	169.881	1.00	82.67
ATOM	16523	C	TYR	J	48	29.965	176.613	170.886	1.00	81.63
ATOM	16524	O	TYR	J	48	28.944	177.186	170.502	1.00	81.58
ATOM	16525	CB	TYR	J	48	30.606	176.670	168.495	1.00	84.73
ATOM	16526	CG	TYR	J	48	31.645	176.521	167.406	1.00	90.65
ATOM	16527	CD1	TYR	J	48	32.112	175.258	167.027	1.00	93.52
ATOM	16528	CD2	TYR	J	48	32.095	177.638	166.686	1.00	93.77
ATOM	16529	CE1	TYR	J	48	32.994	175.102	165.950	1.00	94.38
ATOM	16530	CE2	TYR	J	48	32.977	177.494	165.603	1.00	94.27
ATOM	16531	CZ	TYR	J	48	33.412	176.219	165.239	1.00	95.05
ATOM	16532	OH	TYR	J	48	34.223	176.052	164.141	1.00	93.50
ATOM	16533	N	PRO	J	49	30.201	176.366	172.186	1.00	80.58
ATOM	16534	CA	PRO	J	49	29.256	176.733	173.248	1.00	79.64
ATOM	16535	C	PRO	J	49	28.993	178.230	173.352	1.00	78.48
ATOM	16536	O	PRO	J	49	27.860	178.658	173.581	1.00	77.97
ATOM	16537	CB	PRO	J	49	29.917	176.172	174.506	1.00	80.40
ATOM	16538	CG	PRO	J	49	31.379	176.301	174.193	1.00	81.10
ATOM	16539	CD	PRO	J	49	31.440	175.812	172.761	1.00	80.99
ATOM	16540	N	GLU	J	50	30.045	179.021	173.188	1.00	77.27
ATOM	16541	CA	GLU	J	50	29.927	180.466	173.277	1.00	76.84
ATOM	16542	C	GLU	J	50	28.830	181.030	172.372	1.00	76.48
ATOM	16543	O	GLU	J	50	28.083	181.920	172.781	1.00	77.07
ATOM	16544	CB	GLU	J	50	31.272	181.120	172.936	1.00	77.55
ATOM	16545	CG	GLU	J	50	32.355	180.924	173.990	1.00	77.70
ATOM	16546	CD	GLU	J	50	32.647	179.461	174.283	1.00	77.68
ATOM	16547	OE1	GLU	J	50	33.173	178.763	173.390	1.00	72.99
ATOM	16548	OE2	GLU	J	50	32.348	179.009	175.410	1.00	78.19
ATOM	16549	N	THR	J	51	28.723	180.502	171.155	1.00	75.03
ATOM	16550	CA	THR	J	51	27.730	180.988	170.200	1.00	74.21
ATOM	16551	C	THR	J	51	26.637	179.985	169.847	1.00	74.18
ATOM	16552	O	THR	J	51	25.474	180.352	169.688	1.00	73.81

ATOM	16553	CB	THR	J	51	28.397	181.405	168.878	1.00	74.58
ATOM	16554	OG1	THR	J	51	29.679	181.980	169.154	1.00	74.19
ATOM	16555	CG2	THR	J	51	27.524	182.422	168.134	1.00	72.29
ATOM	16556	N	ILE	J	52	27.012	178.719	169.714	1.00	74.03
ATOM	16557	CA	ILE	J	52	26.053	177.686	169.345	1.00	74.98
ATOM	16558	C	ILE	J	52	25.682	176.755	170.503	1.00	75.11
ATOM	16559	O	ILE	J	52	26.546	176.320	171.264	1.00	75.49
ATOM	16560	CB	ILE	J	52	26.613	176.821	168.185	1.00	75.59
ATOM	16561	CG1	ILE	J	52	27.291	177.720	167.145	1.00	76.53
ATOM	16562	CG2	ILE	J	52	25.489	176.031	167.535	1.00	73.32
ATOM	16563	CD1	ILE	J	52	28.044	176.968	166.057	1.00	74.43
ATOM	16564	N	THR	J	53	24.394	176.458	170.641	1.00	74.80
ATOM	16565	CA	THR	J	53	23.935	175.538	171.680	1.00	74.82
ATOM	16566	C	THR	J	53	23.227	174.357	171.011	1.00	73.58
ATOM	16567	O	THR	J	53	22.301	174.538	170.215	1.00	73.51
ATOM	16568	CB	THR	J	53	22.992	176.233	172.690	1.00	75.46
ATOM	16569	OG1	THR	J	53	22.135	177.151	172.003	1.00	78.79
ATOM	16570	CG2	THR	J	53	23.797	176.981	173.735	1.00	74.16
ATOM	16571	N	ASP	J	54	23.679	173.148	171.333	1.00	72.55
ATOM	16572	CA	ASP	J	54	23.137	171.926	170.745	1.00	71.67
ATOM	16573	C	ASP	J	54	22.053	171.205	171.530	1.00	67.91
ATOM	16574	O	ASP	J	54	22.088	171.123	172.752	1.00	66.37
ATOM	16575	CB	ASP	J	54	24.275	170.937	170.453	1.00	76.23
ATOM	16576	CG	ASP	J	54	24.496	170.720	168.960	1.00	80.25
ATOM	16577	OD1	ASP	J	54	23.571	170.215	168.279	1.00	83.36
ATOM	16578	OD2	ASP	J	54	25.593	171.055	168.471	1.00	79.15
ATOM	16579	N	TYR	J	55	21.089	170.675	170.789	1.00	66.48
ATOM	16580	CA	TYR	J	55	19.974	169.926	171.356	1.00	65.11
ATOM	16581	C	TYR	J	55	20.218	168.477	170.968	1.00	64.28
ATOM	16582	O	TYR	J	55	20.417	168.170	169.789	1.00	65.24
ATOM	16583	CB	TYR	J	55	18.654	170.397	170.746	1.00	61.79
ATOM	16584	CG	TYR	J	55	18.509	171.891	170.753	1.00	61.37
ATOM	16585	CD1	TYR	J	55	18.895	172.637	171.861	1.00	62.17
ATOM	16586	CD2	TYR	J	55	17.988	172.562	169.652	1.00	59.69
ATOM	16587	CE1	TYR	J	55	18.765	174.014	171.875	1.00	65.13
ATOM	16588	CE2	TYR	J	55	17.856	173.936	169.650	1.00	61.38
ATOM	16589	CZ	TYR	J	55	18.244	174.661	170.767	1.00	64.37
ATOM	16590	OH	TYR	J	55	18.098	176.032	170.796	1.00	66.30
ATOM	16591	N	VAL	J	56	20.215	167.584	171.946	1.00	61.63
ATOM	16592	CA	VAL	J	56	20.448	166.191	171.635	1.00	60.42
ATOM	16593	C	VAL	J	56	19.280	165.345	172.112	1.00	58.17
ATOM	16594	O	VAL	J	56	18.776	165.529	173.216	1.00	56.12
ATOM	16595	CB	VAL	J	56	21.760	165.708	172.277	1.00	62.76
ATOM	16596	CG1	VAL	J	56	22.211	164.416	171.627	1.00	63.90
ATOM	16597	CG2	VAL	J	56	22.826	166.773	172.129	1.00	61.38
ATOM	16598	N	THR	J	57	18.855	164.415	171.269	1.00	56.40
ATOM	16599	CA	THR	J	57	17.727	163.559	171.599	1.00	56.85
ATOM	16600	C	THR	J	57	18.017	162.094	171.290	1.00	59.23
ATOM	16601	O	THR	J	57	19.059	161.760	170.715	1.00	59.82
ATOM	16602	CB	THR	J	57	16.500	163.966	170.777	1.00	52.47
ATOM	16603	OG1	THR	J	57	16.626	163.454	169.445	1.00	43.79
ATOM	16604	CG2	THR	J	57	16.408	165.478	170.704	1.00	52.87
ATOM	16605	N	LEU	J	58	17.096	161.222	171.693	1.00	59.51
ATOM	16606	CA	LEU	J	58	17.212	159.802	171.390	1.00	60.48
ATOM	16607	C	LEU	J	58	16.164	159.544	170.301	1.00	60.38
ATOM	16608	O	LEU	J	58	14.996	159.257	170.589	1.00	58.01
ATOM	16609	CB	LEU	J	58	16.927	158.929	172.625	1.00	62.33
ATOM	16610	CG	LEU	J	58	16.915	157.401	172.388	1.00	62.13
ATOM	16611	CD1	LEU	J	58	18.298	156.895	171.965	1.00	62.21
ATOM	16612	CD2	LEU	J	58	16.461	156.697	173.646	1.00	60.42
ATOM	16613	N	GLN	J	59	16.598	159.690	169.051	1.00	61.58
ATOM	16614	CA	GLN	J	59	15.748	159.495	167.881	1.00	64.97

ATOM	16615	C	GLN	J	59	14.928	158.211	167.976	1.00	67.06
ATOM	16616	O	GLN	J	59	13.693	158.222	167.874	1.00	66.65
ATOM	16617	CB	GLN	J	59	16.620	159.430	166.629	1.00	65.90
ATOM	16618	CG	GLN	J	59	16.545	160.633	165.728	1.00	69.47
ATOM	16619	CD	GLN	J	59	15.341	160.603	164.814	1.00	71.67
ATOM	16620	OE1	GLN	J	59	14.192	160.706	165.260	1.00	74.08
ATOM	16621	NE2	GLN	J	59	15.598	160.455	163.520	1.00	71.45
ATOM	16622	N	ARG	J	60	15.640	157.103	168.154	1.00	67.89
ATOM	16623	CA	ARG	J	60	15.027	155.792	168.248	1.00	68.73
ATOM	16624	C	ARG	J	60	15.793	154.981	169.282	1.00	69.75
ATOM	16625	O	ARG	J	60	16.510	155.523	170.128	1.00	68.81
ATOM	16626	CB	ARG	J	60	15.082	155.083	166.883	1.00	68.15
ATOM	16627	CG	ARG	J	60	14.147	153.891	166.747	1.00	71.35
ATOM	16628	CD	ARG	J	60	14.242	153.237	165.372	1.00	78.50
ATOM	16629	NE	ARG	J	60	15.320	152.247	165.271	1.00	86.41
ATOM	16630	CZ	ARG	J	60	16.431	152.392	164.546	1.00	87.01
ATOM	16631	NH1	ARG	J	60	16.638	153.498	163.839	1.00	87.01
ATOM	16632	NH2	ARG	J	60	17.336	151.419	164.523	1.00	85.75
ATOM	16633	N	GLY	J	61	15.634	153.670	169.199	1.00	71.49
ATOM	16634	CA	GLY	J	61	16.301	152.774	170.119	1.00	70.82
ATOM	16635	C	GLY	J	61	15.669	151.419	169.924	1.00	69.07
ATOM	16636	O	GLY	J	61	14.559	151.186	170.400	1.00	68.74
ATOM	16637	N	SER	J	62	16.365	150.541	169.206	1.00	67.11
ATOM	16638	CA	SER	J	62	15.866	149.204	168.933	1.00	65.54
ATOM	16639	C	SER	J	62	16.573	148.161	169.780	1.00	66.51
ATOM	16640	O	SER	J	62	17.791	148.183	169.912	1.00	68.64
ATOM	16641	CB	SER	J	62	16.051	148.874	167.457	1.00	63.23
ATOM	16642	OG	SER	J	62	15.408	149.836	166.646	1.00	62.73
ATOM	16643	N	ALA	J	63	15.798	147.251	170.361	1.00	67.49
ATOM	16644	CA	ALA	J	63	16.339	146.178	171.189	1.00	66.41
ATOM	16645	C	ALA	J	63	16.589	144.955	170.304	1.00	65.78
ATOM	16646	O	ALA	J	63	15.935	144.785	169.276	1.00	65.35
ATOM	16647	CB	ALA	J	63	15.353	145.830	172.302	1.00	64.97
ATOM	16648	N	TYR	J	64	17.549	144.118	170.688	1.00	65.67
ATOM	16649	CA	TYR	J	64	17.858	142.916	169.917	1.00	64.06
ATOM	16650	C	TYR	J	64	18.051	141.720	170.831	1.00	63.47
ATOM	16651	O	TYR	J	64	17.945	141.833	172.056	1.00	63.81
ATOM	16652	CB	TYR	J	64	19.115	143.116	169.075	1.00	64.65
ATOM	16653	CG	TYR	J	64	19.011	144.261	168.099	1.00	68.76
ATOM	16654	CD1	TYR	J	64	18.876	145.576	168.550	1.00	70.20
ATOM	16655	CD2	TYR	J	64	19.015	144.036	166.725	1.00	68.56
ATOM	16656	CE1	TYR	J	64	18.740	146.635	167.661	1.00	69.05
ATOM	16657	CE2	TYR	J	64	18.880	145.095	165.825	1.00	68.83
ATOM	16658	CZ	TYR	J	64	18.742	146.388	166.306	1.00	68.61
ATOM	16659	OH	TYR	J	64	18.588	147.440	165.440	1.00	71.90
ATOM	16660	N	GLY	J	65	18.315	140.573	170.218	1.00	61.52
ATOM	16661	CA	GLY	J	65	18.529	139.348	170.962	1.00	62.78
ATOM	16662	C	GLY	J	65	17.854	139.200	172.317	1.00	63.55
ATOM	16663	O	GLY	J	65	16.681	139.528	172.486	1.00	61.79
ATOM	16664	N	GLY	J	66	18.621	138.694	173.280	1.00	64.86
ATOM	16665	CA	GLY	J	66	18.122	138.467	174.623	1.00	67.45
ATOM	16666	C	GLY	J	66	17.170	139.488	175.218	1.00	68.75
ATOM	16667	O	GLY	J	66	16.233	139.113	175.930	1.00	68.15
ATOM	16668	N	VAL	J	67	17.406	140.770	174.943	1.00	70.37
ATOM	16669	CA	VAL	J	67	16.561	141.848	175.472	1.00	71.05
ATOM	16670	C	VAL	J	67	15.212	141.903	174.760	1.00	70.36
ATOM	16671	O	VAL	J	67	14.156	142.077	175.394	1.00	69.74
ATOM	16672	CB	VAL	J	67	17.261	143.237	175.337	1.00	71.78
ATOM	16673	CG1	VAL	J	67	16.237	144.361	175.460	1.00	73.97
ATOM	16674	CG2	VAL	J	67	18.316	143.395	176.428	1.00	71.05
ATOM	16675	N	LEU	J	68	15.268	141.742	173.441	1.00	67.81
ATOM	16676	CA	LEU	J	68	14.091	141.773	172.588	1.00	66.32

ATOM	16677	C	LEU	J	68	13.096	140.628	172.825	1.00	67.79
ATOM	16678	O	LEU	J	68	12.056	140.564	172.164	1.00	69.32
ATOM	16679	CB	LEU	J	68	14.536	141.765	171.130	1.00	59.86
ATOM	16680	CG	LEU	J	68	13.425	141.806	170.093	1.00	57.49
ATOM	16681	CD1	LEU	J	68	12.517	142.997	170.363	1.00	55.75
ATOM	16682	CD2	LEU	J	68	14.029	141.894	168.713	1.00	56.51
ATOM	16683	N	SER	J	69	13.395	139.736	173.768	1.00	67.81
ATOM	16684	CA	SER	J	69	12.507	138.611	174.019	1.00	66.23
ATOM	16685	C	SER	J	69	12.505	138.105	175.443	1.00	67.93
ATOM	16686	O	SER	J	69	11.855	137.099	175.722	1.00	69.98
ATOM	16687	CB	SER	J	69	12.872	137.440	173.109	1.00	64.76
ATOM	16688	OG	SER	J	69	14.096	136.855	173.518	1.00	60.93
ATOM	16689	N	ASN	J	70	13.218	138.771	176.346	1.00	68.32
ATOM	16690	CA	ASN	J	70	13.253	138.310	177.736	1.00	69.40
ATOM	16691	C	ASN	J	70	13.032	139.376	178.806	1.00	69.56
ATOM	16692	O	ASN	J	70	13.118	139.092	180.010	1.00	69.94
ATOM	16693	CB	ASN	J	70	14.570	137.583	178.015	1.00	69.89
ATOM	16694	CG	ASN	J	70	14.550	136.140	177.550	1.00	70.48
ATOM	16695	OD1	ASN	J	70	13.818	135.302	178.097	1.00	67.38
ATOM	16696	ND2	ASN	J	70	15.357	135.839	176.533	1.00	70.98
ATOM	16697	N	PHE	J	71	12.746	140.601	178.383	1.00	69.33
ATOM	16698	CA	PHE	J	71	12.524	141.654	179.358	1.00	68.75
ATOM	16699	C	PHE	J	71	11.510	142.692	178.914	1.00	67.31
ATOM	16700	O	PHE	J	71	11.456	143.067	177.749	1.00	65.32
ATOM	16701	CB	PHE	J	71	13.843	142.358	179.694	1.00	70.70
ATOM	16702	CG	PHE	J	71	14.993	141.419	179.942	1.00	71.17
ATOM	16703	CD1	PHE	J	71	15.768	140.952	178.878	1.00	69.66
ATOM	16704	CD2	PHE	J	71	15.295	140.995	181.234	1.00	70.75
ATOM	16705	CE1	PHE	J	71	16.824	140.080	179.095	1.00	70.59
ATOM	16706	CE2	PHE	J	71	16.347	140.123	181.468	1.00	71.95
ATOM	16707	CZ	PHE	J	71	17.117	139.662	180.395	1.00	74.12
ATOM	16708	N	SER	J	72	10.700	143.145	179.861	1.00	66.85
ATOM	16709	CA	SER	J	72	9.708	144.171	179.591	1.00	66.29
ATOM	16710	C	SER	J	72	10.333	145.456	180.118	1.00	67.08
ATOM	16711	O	SER	J	72	10.446	145.645	181.330	1.00	66.55
ATOM	16712	CB	SER	J	72	8.402	143.883	180.344	1.00	64.90
ATOM	16713	OG	SER	J	72	8.532	144.103	181.741	1.00	60.86
ATOM	16714	N	GLY	J	73	10.745	146.343	179.220	1.00	67.38
ATOM	16715	CA	GLY	J	73	11.361	147.569	179.691	1.00	69.10
ATOM	16716	C	GLY	J	73	11.080	148.899	179.016	1.00	68.34
ATOM	16717	O	GLY	J	73	10.507	148.985	177.928	1.00	66.68
ATOM	16718	N	THR	J	74	11.503	149.951	179.704	1.00	69.04
ATOM	16719	CA	THR	J	74	11.358	151.314	179.227	1.00	70.91
ATOM	16720	C	THR	J	74	12.760	151.911	179.132	1.00	71.73
ATOM	16721	O	THR	J	74	13.754	151.217	179.353	1.00	72.29
ATOM	16722	CB	THR	J	74	10.540	152.158	180.207	1.00	69.83
ATOM	16723	OG1	THR	J	74	11.131	152.068	181.504	1.00	69.82
ATOM	16724	CG2	THR	J	74	9.116	151.668	180.279	1.00	69.73
ATOM	16725	N	VAL	J	75	12.835	153.195	178.801	1.00	71.94
ATOM	16726	CA	VAL	J	75	14.110	153.884	178.696	1.00	71.58
ATOM	16727	C	VAL	J	75	14.023	155.172	179.502	1.00	72.22
ATOM	16728	O	VAL	J	75	13.075	155.958	179.355	1.00	70.15
ATOM	16729	CB	VAL	J	75	14.464	154.221	177.224	1.00	72.04
ATOM	16730	CG1	VAL	J	75	13.517	155.286	176.688	1.00	73.71
ATOM	16731	CG2	VAL	J	75	15.906	154.692	177.125	1.00	71.59
ATOM	16732	N	LYS	J	76	15.005	155.367	180.377	1.00	73.17
ATOM	16733	CA	LYS	J	76	15.064	156.562	181.209	1.00	72.51
ATOM	16734	C	LYS	J	76	15.888	157.585	180.449	1.00	70.60
ATOM	16735	O	LYS	J	76	17.079	157.353	180.203	1.00	71.40
ATOM	16736	CB	LYS	J	76	15.747	156.254	182.546	1.00	72.34
ATOM	16737	CG	LYS	J	76	15.951	157.477	183.431	1.00	74.08
ATOM	16738	CD	LYS	J	76	16.803	157.152	184.659	1.00	75.35

ATOM	16739	CE	LYS	J	76	16.980	158.367	185.574	1.00	74.44
ATOM	16740	NZ	LYS	J	76	17.704	158.019	186.830	1.00	71.86
ATOM	16741	N	TYR	J	77	15.261	158.695	180.059	1.00	66.40
ATOM	16742	CA	TYR	J	77	15.980	159.739	179.335	1.00	64.18
ATOM	16743	C	TYR	J	77	15.879	161.099	180.001	1.00	64.42
ATOM	16744	O	TYR	J	77	14.972	161.874	179.707	1.00	65.89
ATOM	16745	CB	TYR	J	77	15.478	159.877	177.907	1.00	60.97
ATOM	16746	CG	TYR	J	77	16.316	160.841	177.103	1.00	58.89
ATOM	16747	CD1	TYR	J	77	17.625	160.517	176.750	1.00	58.65
ATOM	16748	CD2	TYR	J	77	15.816	162.085	176.716	1.00	59.82
ATOM	16749	CE1	TYR	J	77	18.419	161.400	176.033	1.00	60.65
ATOM	16750	CE2	TYR	J	77	16.602	162.985	175.994	1.00	62.01
ATOM	16751	CZ	TYR	J	77	17.908	162.632	175.655	1.00	64.20
ATOM	16752	OH	TYR	J	77	18.707	163.502	174.935	1.00	66.97
ATOM	16753	N	SER	J	78	16.820	161.391	180.889	1.00	63.54
ATOM	16754	CA	SER	J	78	16.828	162.662	181.579	1.00	63.49
ATOM	16755	C	SER	J	78	15.554	162.867	182.397	1.00	64.94
ATOM	16756	O	SER	J	78	14.679	163.649	182.016	1.00	66.02
ATOM	16757	CB	SER	J	78	16.987	163.791	180.563	1.00	62.19
ATOM	16758	OG	SER	J	78	17.037	165.054	181.197	1.00	67.06
ATOM	16759	N	GLY	J	79	15.454	162.152	183.517	1.00	66.32
ATOM	16760	CA	GLY	J	79	14.302	162.280	184.400	1.00	66.42
ATOM	16761	C	GLY	J	79	13.074	161.475	184.020	1.00	66.44
ATOM	16762	O	GLY	J	79	12.546	160.716	184.836	1.00	65.49
ATOM	16763	N	SER	J	80	12.610	161.648	182.786	1.00	65.39
ATOM	16764	CA	SER	J	80	11.443	160.929	182.314	1.00	66.06
ATOM	16765	C	SER	J	80	11.790	159.567	181.723	1.00	67.88
ATOM	16766	O	SER	J	80	12.943	159.301	181.360	1.00	68.97
ATOM	16767	CB	SER	J	80	10.691	161.767	181.284	1.00	66.35
ATOM	16768	OG	SER	J	80	9.919	162.780	181.918	1.00	69.00
ATOM	16769	N	SER	J	81	10.775	158.705	181.646	1.00	68.32
ATOM	16770	CA	SER	J	81	10.909	157.352	181.109	1.00	66.25
ATOM	16771	C	SER	J	81	9.952	157.175	179.930	1.00	64.42
ATOM	16772	O	SER	J	81	8.820	157.677	179.937	1.00	63.28
ATOM	16773	CB	SER	J	81	10.565	156.324	182.187	1.00	67.50
ATOM	16774	OG	SER	J	81	11.102	156.705	183.439	1.00	70.42
ATOM	16775	N	TYR	J	82	10.410	156.459	178.915	1.00	62.14
ATOM	16776	CA	TYR	J	82	9.585	156.224	177.742	1.00	60.83
ATOM	16777	C	TYR	J	82	9.684	154.739	177.355	1.00	58.55
ATOM	16778	O	TYR	J	82	10.677	154.080	177.646	1.00	57.40
ATOM	16779	CB	TYR	J	82	10.053	157.123	176.583	1.00	60.64
ATOM	16780	CG	TYR	J	82	10.167	158.607	176.919	1.00	59.55
ATOM	16781	CD1	TYR	J	82	11.235	159.103	177.675	1.00	58.17
ATOM	16782	CD2	TYR	J	82	9.214	159.515	176.468	1.00	61.00
ATOM	16783	CE1	TYR	J	82	11.347	160.473	177.971	1.00	55.13
ATOM	16784	CE2	TYR	J	82	9.319	160.881	176.756	1.00	59.31
ATOM	16785	CZ	TYR	J	82	10.384	161.354	177.505	1.00	56.86
ATOM	16786	OH	TYR	J	82	10.470	162.704	177.771	1.00	50.95
ATOM	16787	N	PRO	J	83	8.645	154.193	176.705	1.00	56.10
ATOM	16788	CA	PRO	J	83	8.681	152.784	176.310	1.00	52.89
ATOM	16789	C	PRO	J	83	9.897	152.456	175.446	1.00	53.65
ATOM	16790	O	PRO	J	83	10.206	153.178	174.497	1.00	52.99
ATOM	16791	CB	PRO	J	83	7.383	152.612	175.526	1.00	51.49
ATOM	16792	CG	PRO	J	83	6.482	153.655	176.091	1.00	53.84
ATOM	16793	CD	PRO	J	83	7.392	154.834	176.267	1.00	55.09
ATOM	16794	N	PHE	J	84	10.596	151.375	175.777	1.00	54.71
ATOM	16795	CA	PHE	J	84	11.751	150.944	174.988	1.00	54.07
ATOM	16796	C	PHE	J	84	11.468	149.519	174.550	1.00	54.49
ATOM	16797	O	PHE	J	84	11.124	148.683	175.380	1.00	54.99
ATOM	16798	CB	PHE	J	84	13.041	150.958	175.809	1.00	52.34
ATOM	16799	CG	PHE	J	84	14.172	150.218	175.151	1.00	49.59
ATOM	16800	CD1	PHE	J	84	14.741	150.695	173.977	1.00	49.31

ATOM	16801	CD2	PHE	J	84	14.625	149.012	175.669	1.00	47.65
ATOM	16802	CE1	PHE	J	84	15.745	149.977	173.322	1.00	51.54
ATOM	16803	CE2	PHE	J	84	15.628	148.283	175.025	1.00	49.13
ATOM	16804	CZ	PHE	J	84	16.190	148.765	173.845	1.00	49.09
ATOM	16805	N	PRO	J	85	11.601	149.217	173.245	1.00	55.86
ATOM	16806	CA	PRO	J	85	11.985	150.060	172.106	1.00	57.45
ATOM	16807	C	PRO	J	85	11.217	151.369	172.031	1.00	59.70
ATOM	16808	O	PRO	J	85	10.005	151.398	172.244	1.00	62.16
ATOM	16809	CB	PRO	J	85	11.686	149.170	170.906	1.00	55.25
ATOM	16810	CG	PRO	J	85	11.956	147.812	171.435	1.00	55.72
ATOM	16811	CD	PRO	J	85	11.301	147.849	172.785	1.00	55.24
ATOM	16812	N	THR	J	86	11.921	152.452	171.721	1.00	60.78
ATOM	16813	CA	THR	J	86	11.281	153.755	171.616	1.00	59.93
ATOM	16814	C	THR	J	86	10.315	153.766	170.429	1.00	59.25
ATOM	16815	O	THR	J	86	10.575	153.147	169.394	1.00	58.41
ATOM	16816	CB	THR	J	86	12.325	154.879	171.426	1.00	60.63
ATOM	16817	OG1	THR	J	86	13.055	154.662	170.214	1.00	59.53
ATOM	16818	CG2	THR	J	86	13.300	154.898	172.587	1.00	60.85
ATOM	16819	N	THR	J	87	9.195	154.460	170.593	1.00	57.50
ATOM	16820	CA	THR	J	87	8.203	154.567	169.532	1.00	55.64
ATOM	16821	C	THR	J	87	8.172	156.002	168.995	1.00	54.70
ATOM	16822	O	THR	J	87	7.374	156.327	168.120	1.00	51.85
ATOM	16823	CB	THR	J	87	6.788	154.162	170.046	1.00	57.03
ATOM	16824	OG1	THR	J	87	6.406	154.992	171.154	1.00	56.27
ATOM	16825	CG2	THR	J	87	6.783	152.704	170.495	1.00	56.36
ATOM	16826	N	SER	J	88	9.061	156.848	169.518	1.00	55.58
ATOM	16827	CA	SER	J	88	9.151	158.254	169.118	1.00	56.80
ATOM	16828	C	SER	J	88	10.493	158.867	169.508	1.00	57.94
ATOM	16829	O	SER	J	88	11.277	158.257	170.243	1.00	59.37
ATOM	16830	CB	SER	J	88	8.049	159.055	169.790	1.00	56.23
ATOM	16831	OG	SER	J	88	6.806	158.404	169.633	1.00	64.09
ATOM	16832	N	GLU	J	89	10.753	160.077	169.013	1.00	58.50
ATOM	16833	CA	GLU	J	89	11.997	160.787	169.317	1.00	59.12
ATOM	16834	C	GLU	J	89	11.779	161.656	170.551	1.00	59.36
ATOM	16835	O	GLU	J	89	10.978	162.585	170.518	1.00	61.70
ATOM	16836	CB	GLU	J	89	12.419	161.671	168.140	1.00	57.37
ATOM	16837	CG	GLU	J	89	13.600	162.578	168.465	1.00	59.12
ATOM	16838	CD	GLU	J	89	13.822	163.662	167.425	1.00	58.59
ATOM	16839	OE1	GLU	J	89	12.833	164.287	167.001	1.00	59.71
ATOM	16840	OE2	GLU	J	89	14.984	163.905	167.041	1.00	57.26
ATOM	16841	N	THR	J	90	12.493	161.360	171.632	1.00	59.31
ATOM	16842	CA	THR	J	90	12.341	162.108	172.879	1.00	61.29
ATOM	16843	C	THR	J	90	12.567	163.617	172.710	1.00	63.50
ATOM	16844	O	THR	J	90	12.992	164.076	171.645	1.00	62.96
ATOM	16845	CB	THR	J	90	13.306	161.569	173.969	1.00	60.14
ATOM	16846	OG1	THR	J	90	14.664	161.818	173.588	1.00	62.41
ATOM	16847	CG2	THR	J	90	13.114	160.081	174.153	1.00	61.58
ATOM	16848	N	PRO	J	91	12.260	164.408	173.758	1.00	65.13
ATOM	16849	CA	PRO	J	91	12.422	165.869	173.762	1.00	67.21
ATOM	16850	C	PRO	J	91	13.867	166.256	173.459	1.00	69.25
ATOM	16851	O	PRO	J	91	14.593	165.483	172.840	1.00	70.54
ATOM	16852	CB	PRO	J	91	12.019	166.252	175.182	1.00	67.61
ATOM	16853	CG	PRO	J	91	10.981	165.237	175.519	1.00	67.83
ATOM	16854	CD	PRO	J	91	11.590	163.959	174.993	1.00	66.96
ATOM	16855	N	ARG	J	92	14.289	167.443	173.890	1.00	70.74
ATOM	16856	CA	ARG	J	92	15.670	167.857	173.657	1.00	72.76
ATOM	16857	C	ARG	J	92	16.444	168.207	174.932	1.00	73.41
ATOM	16858	O	ARG	J	92	15.960	168.934	175.800	1.00	73.37
ATOM	16859	CB	ARG	J	92	15.736	169.043	172.685	1.00	73.59
ATOM	16860	CG	ARG	J	92	15.178	170.361	173.214	1.00	79.33
ATOM	16861	CD	ARG	J	92	15.623	171.529	172.324	1.00	84.46
ATOM	16862	NE	ARG	J	92	14.973	172.808	172.633	1.00	89.60

ATOM	16863	CZ	ARG	J	92	15.057	173.452	173.797	1.00	91.89
ATOM	16864	NH1	ARG	J	92	15.770	172.948	174.801	1.00	92.93
ATOM	16865	NH2	ARG	J	92	14.425	174.611	173.954	1.00	91.03
ATOM	16866	N	VAL	J	93	17.648	167.659	175.043	1.00	74.91
ATOM	16867	CA	VAL	J	93	18.522	167.934	176.172	1.00	76.85
ATOM	16868	C	VAL	J	93	19.589	168.880	175.621	1.00	79.52
ATOM	16869	O	VAL	J	93	20.356	168.513	174.726	1.00	79.36
ATOM	16870	CB	VAL	J	93	19.198	166.654	176.693	1.00	75.88
ATOM	16871	CG1	VAL	J	93	20.140	166.992	177.834	1.00	75.63
ATOM	16872	CG2	VAL	J	93	18.148	165.672	177.156	1.00	75.95
ATOM	16873	N	VAL	J	94	19.624	170.104	176.141	1.00	81.86
ATOM	16874	CA	VAL	J	94	20.583	171.093	175.671	1.00	82.31
ATOM	16875	C	VAL	J	94	22.009	170.733	176.037	1.00	84.60
ATOM	16876	O	VAL	J	94	22.305	170.357	177.169	1.00	85.52
ATOM	16877	CB	VAL	J	94	20.256	172.497	176.218	1.00	80.46
ATOM	16878	CG1	VAL	J	94	18.888	172.934	175.721	1.00	79.41
ATOM	16879	CG2	VAL	J	94	20.293	172.493	177.727	1.00	80.41
ATOM	16880	N	TYR	J	95	22.885	170.846	175.048	1.00	87.52
ATOM	16881	CA	TYR	J	95	24.303	170.552	175.195	1.00	90.60
ATOM	16882	C	TYR	J	95	25.098	171.774	174.746	1.00	92.57
ATOM	16883	O	TYR	J	95	24.913	172.262	173.631	1.00	95.62
ATOM	16884	CB	TYR	J	95	24.669	169.346	174.324	1.00	90.18
ATOM	16885	CG	TYR	J	95	24.566	168.015	175.036	1.00	90.58
ATOM	16886	CD1	TYR	J	95	23.413	167.654	175.730	1.00	90.24
ATOM	16887	CD2	TYR	J	95	25.636	167.120	175.028	1.00	91.55
ATOM	16888	CE1	TYR	J	95	23.333	166.429	176.401	1.00	91.70
ATOM	16889	CE2	TYR	J	95	25.567	165.899	175.692	1.00	91.05
ATOM	16890	CZ	TYR	J	95	24.417	165.560	176.376	1.00	91.92
ATOM	16891	OH	TYR	J	95	24.359	164.354	177.035	1.00	91.49
ATOM	16892	N	ASN	J	96	25.976	172.280	175.604	1.00	93.15
ATOM	16893	CA	ASN	J	96	26.770	173.450	175.236	1.00	93.76
ATOM	16894	C	ASN	J	96	27.904	173.784	176.202	1.00	93.91
ATOM	16895	O	ASN	J	96	27.794	174.692	177.034	1.00	93.27
ATOM	16896	CB	ASN	J	96	25.858	174.669	175.048	1.00	93.80
ATOM	16897	CG	ASN	J	96	24.832	174.811	176.152	1.00	93.65
ATOM	16898	OD1	ASN	J	96	24.052	175.764	176.167	1.00	94.10
ATOM	16899	ND2	ASN	J	96	24.821	173.862	177.083	1.00	93.95
ATOM	16900	N	SER	J	97	28.998	173.039	176.066	1.00	93.35
ATOM	16901	CA	SER	J	97	30.194	173.209	176.885	1.00	92.96
ATOM	16902	C	SER	J	97	31.285	172.347	176.274	1.00	92.59
ATOM	16903	O	SER	J	97	31.070	171.170	175.996	1.00	92.49
ATOM	16904	CB	SER	J	97	29.941	172.758	178.328	1.00	93.40
ATOM	16905	OG	SER	J	97	28.997	173.589	178.983	1.00	93.54
ATOM	16906	N	ARG	J	98	32.452	172.931	176.052	1.00	92.97
ATOM	16907	CA	ARG	J	98	33.559	172.179	175.478	1.00	94.20
ATOM	16908	C	ARG	J	98	33.800	170.952	176.352	1.00	94.43
ATOM	16909	O	ARG	J	98	34.298	169.928	175.887	1.00	93.16
ATOM	16910	CB	ARG	J	98	34.812	173.056	175.435	1.00	95.10
ATOM	16911	CG	ARG	J	98	34.629	174.330	174.623	1.00	96.90
ATOM	16912	CD	ARG	J	98	35.242	174.215	173.230	1.00	98.11
ATOM	16913	NE	ARG	J	98	34.733	175.223	172.298	1.00	97.60
ATOM	16914	CZ	ARG	J	98	34.676	176.530	172.543	1.00	97.42
ATOM	16915	NH1	ARG	J	98	35.093	177.023	173.702	1.00	97.41
ATOM	16916	NH2	ARG	J	98	34.197	177.350	171.621	1.00	98.23
ATOM	16917	N	THR	J	99	33.428	171.076	177.626	1.00	95.76
ATOM	16918	CA	THR	J	99	33.582	170.008	178.611	1.00	95.70
ATOM	16919	C	THR	J	99	32.553	168.914	178.337	1.00	96.14
ATOM	16920	O	THR	J	99	31.441	169.201	177.886	1.00	96.22
ATOM	16921	CB	THR	J	99	33.354	170.541	180.049	1.00	95.60
ATOM	16922	OG1	THR	J	99	34.210	171.665	180.293	1.00	95.38
ATOM	16923	CG2	THR	J	99	33.653	169.456	181.075	1.00	96.25
ATOM	16924	N	ASP	J	100	32.915	167.664	178.612	1.00	96.15

ATOM	16925	CA	ASP	J	100	31.991	166.558	178.381	1.00	95.52
ATOM	16926	C	ASP	J	100	30.850	166.470	179.389	1.00	95.48
ATOM	16927	O	ASP	J	100	30.903	167.024	180.488	1.00	94.64
ATOM	16928	CB	ASP	J	100	32.734	165.222	178.350	1.00	93.82
ATOM	16929	CG	ASP	J	100	33.507	165.017	177.067	1.00	92.63
ATOM	16930	OD1	ASP	J	100	32.918	165.163	175.974	1.00	90.40
ATOM	16931	OD2	ASP	J	100	34.708	164.701	177.152	1.00	95.47
ATOM	16932	N	LYS	J	101	29.813	165.752	178.986	1.00	95.45
ATOM	16933	CA	LYS	J	101	28.632	165.557	179.803	1.00	95.37
ATOM	16934	C	LYS	J	101	28.085	164.191	179.405	1.00	96.87
ATOM	16935	O	LYS	J	101	28.240	163.760	178.257	1.00	97.47
ATOM	16936	CB	LYS	J	101	27.615	166.659	179.500	1.00	92.63
ATOM	16937	CG	LYS	J	101	26.368	166.654	180.360	1.00	90.20
ATOM	16938	CD	LYS	J	101	25.498	167.859	180.022	1.00	86.94
ATOM	16939	CE	LYS	J	101	24.267	167.936	180.907	1.00	86.30
ATOM	16940	NZ	LYS	J	101	23.482	169.163	180.629	1.00	83.13
ATOM	16941	N	PRO	J	102	27.471	163.472	180.354	1.00	96.99
ATOM	16942	CA	PRO	J	102	26.933	162.156	180.001	1.00	95.38
ATOM	16943	C	PRO	J	102	25.645	162.305	179.204	1.00	94.14
ATOM	16944	O	PRO	J	102	24.950	163.318	179.324	1.00	93.91
ATOM	16945	CB	PRO	J	102	26.673	161.508	181.362	1.00	96.36
ATOM	16946	CG	PRO	J	102	27.606	162.232	182.293	1.00	97.50
ATOM	16947	CD	PRO	J	102	27.491	163.653	181.815	1.00	97.47
ATOM	16948	N	TRP	J	103	25.342	161.303	178.381	1.00	92.27
ATOM	16949	CA	TRP	J	103	24.110	161.299	177.600	1.00	88.13
ATOM	16950	C	TRP	J	103	23.125	160.594	178.519	1.00	85.40
ATOM	16951	O	TRP	J	103	23.164	159.376	178.659	1.00	86.58
ATOM	16952	CB	TRP	J	103	24.288	160.506	176.304	1.00	87.29
ATOM	16953	CG	TRP	J	103	23.169	160.693	175.329	1.00	87.13
ATOM	16954	CD1	TRP	J	103	22.481	161.842	175.093	1.00	86.75
ATOM	16955	CD2	TRP	J	103	22.666	159.723	174.395	1.00	87.76
ATOM	16956	NE1	TRP	J	103	21.584	161.657	174.069	1.00	88.71
ATOM	16957	CE2	TRP	J	103	21.676	160.364	173.622	1.00	87.67
ATOM	16958	CE3	TRP	J	103	22.957	158.376	174.135	1.00	88.46
ATOM	16959	CZ2	TRP	J	103	20.973	159.704	172.603	1.00	87.04
ATOM	16960	CZ3	TRP	J	103	22.254	157.719	173.118	1.00	86.87
ATOM	16961	CH2	TRP	J	103	21.276	158.387	172.368	1.00	85.16
ATOM	16962	N	PRO	J	104	22.241	161.359	179.168	1.00	81.81
ATOM	16963	CA	PRO	J	104	21.230	160.848	180.096	1.00	80.09
ATOM	16964	C	PRO	J	104	20.358	159.735	179.519	1.00	78.59
ATOM	16965	O	PRO	J	104	19.160	159.912	179.332	1.00	77.83
ATOM	16966	CB	PRO	J	104	20.426	162.095	180.431	1.00	80.33
ATOM	16967	CG	PRO	J	104	20.474	162.861	179.137	1.00	81.12
ATOM	16968	CD	PRO	J	104	21.932	162.744	178.777	1.00	81.85
ATOM	16969	N	VAL	J	105	20.958	158.585	179.248	1.00	77.81
ATOM	16970	CA	VAL	J	105	20.217	157.466	178.690	1.00	77.37
ATOM	16971	C	VAL	J	105	20.431	156.181	179.475	1.00	77.63
ATOM	16972	O	VAL	J	105	21.487	155.537	179.370	1.00	76.93
ATOM	16973	CB	VAL	J	105	20.614	157.211	177.230	1.00	77.05
ATOM	16974	CG1	VAL	J	105	19.802	156.046	176.672	1.00	76.50
ATOM	16975	CG2	VAL	J	105	20.392	158.470	176.408	1.00	76.48
ATOM	16976	N	ALA	J	106	19.418	155.811	180.254	1.00	75.82
ATOM	16977	CA	ALA	J	106	19.481	154.602	181.055	1.00	73.37
ATOM	16978	C	ALA	J	106	18.323	153.663	180.731	1.00	73.45
ATOM	16979	O	ALA	J	106	17.155	154.073	180.695	1.00	69.74
ATOM	16980	CB	ALA	J	106	19.483	154.958	182.533	1.00	73.77
ATOM	16981	N	LEU	J	107	18.679	152.401	180.485	1.00	73.45
ATOM	16982	CA	LEU	J	107	17.734	151.338	180.163	1.00	72.92
ATOM	16983	C	LEU	J	107	17.304	150.586	181.412	1.00	73.92
ATOM	16984	O	LEU	J	107	18.139	150.175	182.208	1.00	71.96
ATOM	16985	CB	LEU	J	107	18.379	150.356	179.193	1.00	69.55
ATOM	16986	CG	LEU	J	107	17.883	150.380	177.751	1.00	69.05

ATOM	16987	CD1	LEU	J	107	17.717	151.812	177.279	1.00	66.87
ATOM	16988	CD2	LEU	J	107	18.871	149.612	176.871	1.00	67.60
ATOM	16989	N	TYR	J	108	15.998	150.407	181.578	1.00	77.55
ATOM	16990	CA	TYR	J	108	15.475	149.693	182.736	1.00	81.24
ATOM	16991	C	TYR	J	108	14.621	148.482	182.358	1.00	81.63
ATOM	16992	O	TYR	J	108	13.390	148.494	182.488	1.00	80.54
ATOM	16993	CB	TYR	J	108	14.694	150.653	183.641	1.00	83.74
ATOM	16994	CG	TYR	J	108	15.594	151.674	184.287	1.00	87.04
ATOM	16995	CD1	TYR	J	108	16.275	152.599	183.512	1.00	88.99
ATOM	16996	CD2	TYR	J	108	15.821	151.673	185.664	1.00	88.72
ATOM	16997	CE1	TYR	J	108	17.167	153.493	184.081	1.00	93.70
ATOM	16998	CE2	TYR	J	108	16.717	152.569	186.249	1.00	90.77
ATOM	16999	CZ	TYR	J	108	17.390	153.478	185.445	1.00	92.75
ATOM	17000	OH	TYR	J	108	18.299	154.373	185.976	1.00	94.44
ATOM	17001	N	LEU	J	109	15.315	147.438	181.899	1.00	81.71
ATOM	17002	CA	LEU	J	109	14.713	146.173	181.487	1.00	81.83
ATOM	17003	C	LEU	J	109	14.334	145.338	182.717	1.00	82.60
ATOM	17004	O	LEU	J	109	14.730	145.654	183.842	1.00	82.18
ATOM	17005	CB	LEU	J	109	15.712	145.383	180.637	1.00	80.01
ATOM	17006	CG	LEU	J	109	16.573	146.153	179.630	1.00	80.45
ATOM	17007	CD1	LEU	J	109	17.592	145.201	179.019	1.00	79.75
ATOM	17008	CD2	LEU	J	109	15.707	146.785	178.554	1.00	77.35
ATOM	17009	N	THR	J	110	13.569	144.272	182.497	1.00	83.65
ATOM	17010	CA	THR	J	110	13.148	143.385	183.584	1.00	83.97
ATOM	17011	C	THR	J	110	12.842	141.994	183.034	1.00	84.49
ATOM	17012	O	THR	J	110	12.230	141.858	181.977	1.00	84.62
ATOM	17013	CB	THR	J	110	11.895	143.919	184.303	1.00	82.31
ATOM	17014	OG1	THR	J	110	12.084	145.301	184.636	1.00	81.52
ATOM	17015	CG2	THR	J	110	11.650	143.134	185.580	1.00	80.05
ATOM	17016	N	PRO	J	111	13.256	140.940	183.754	1.00	84.67
ATOM	17017	CA	PRO	J	111	13.024	139.556	183.319	1.00	84.06
ATOM	17018	C	PRO	J	111	11.549	139.141	183.269	1.00	83.26
ATOM	17019	O	PRO	J	111	10.731	139.610	184.070	1.00	83.19
ATOM	17020	CB	PRO	J	111	13.804	138.732	184.352	1.00	84.55
ATOM	17021	CG	PRO	J	111	14.813	139.701	184.914	1.00	83.55
ATOM	17022	CD	PRO	J	111	14.014	140.967	185.016	1.00	83.38
ATOM	17023	N	VAL	J	112	11.217	138.264	182.324	1.00	81.59
ATOM	17024	CA	VAL	J	112	9.851	137.753	182.199	1.00	80.87
ATOM	17025	C	VAL	J	112	9.872	136.244	182.427	1.00	80.72
ATOM	17026	O	VAL	J	112	10.825	135.567	182.027	1.00	80.51
ATOM	17027	CB	VAL	J	112	9.233	138.021	180.792	1.00	79.79
ATOM	17028	CG1	VAL	J	112	8.831	139.478	180.660	1.00	76.71
ATOM	17029	CG2	VAL	J	112	10.221	137.626	179.701	1.00	78.03
ATOM	17030	N	SER	J	113	8.827	135.728	183.072	1.00	79.36
ATOM	17031	CA	SER	J	113	8.714	134.301	183.346	1.00	79.54
ATOM	17032	C	SER	J	113	9.342	133.483	182.230	1.00	80.79
ATOM	17033	O	SER	J	113	10.170	132.614	182.479	1.00	80.62
ATOM	17034	CB	SER	J	113	7.247	133.908	183.489	1.00	79.63
ATOM	17035	OG	SER	J	113	6.648	134.569	184.589	1.00	78.51
ATOM	17036	N	SER	J	114	8.946	133.766	180.995	1.00	83.81
ATOM	17037	CA	SER	J	114	9.482	133.051	179.843	1.00	87.83
ATOM	17038	C	SER	J	114	10.961	133.355	179.646	1.00	91.62
ATOM	17039	O	SER	J	114	11.361	133.945	178.640	1.00	93.36
ATOM	17040	CB	SER	J	114	8.692	133.409	178.578	1.00	84.93
ATOM	17041	OG	SER	J	114	8.486	134.804	178.473	1.00	83.79
ATOM	17042	N	ALA	J	115	11.770	132.943	180.620	1.00	95.32
ATOM	17043	CA	ALA	J	115	13.217	133.158	180.583	1.00	99.16
ATOM	17044	C	ALA	J	115	13.944	132.003	181.284	1.00	101.15
ATOM	17045	O	ALA	J	115	13.618	131.655	182.422	1.00	102.62
ATOM	17046	CB	ALA	J	115	13.563	134.490	181.254	1.00	98.39
ATOM	17047	N	GLY	J	116	14.927	131.414	180.605	1.00	102.33
ATOM	17048	CA	GLY	J	116	15.664	130.302	181.186	1.00	103.57

ATOM	17049	C	GLY	J	116	16.794	130.705	182.118	1.00104.51
ATOM	17050	O	GLY	J	116	16.686	130.586	183.342	1.00102.69
ATOM	17051	N	GLY	J	117	17.888	131.175	181.528	1.00105.93
ATOM	17052	CA	GLY	J	117	19.037	131.594	182.306	1.00107.74
ATOM	17053	C	GLY	J	117	19.919	132.522	181.495	1.00108.83
ATOM	17054	O	GLY	J	117	19.927	133.733	181.719	1.00109.23
ATOM	17055	N	VAL	J	118	20.667	131.958	180.550	1.00109.48
ATOM	17056	CA	VAL	J	118	21.543	132.756	179.701	1.00109.03
ATOM	17057	C	VAL	J	118	20.672	133.543	178.725	1.00109.82
ATOM	17058	O	VAL	J	118	20.614	133.225	177.535	1.00111.20
ATOM	17059	CB	VAL	J	118	22.535	131.869	178.895	1.00107.38
ATOM	17060	CG1	VAL	J	118	23.425	132.746	178.021	1.00105.62
ATOM	17061	CG2	VAL	J	118	23.387	131.034	179.843	1.00104.93
ATOM	17062	N	ALA	J	119	19.985	134.559	179.243	1.00109.41
ATOM	17063	CA	ALA	J	119	19.114	135.407	178.433	1.00108.42
ATOM	17064	C	ALA	J	119	19.942	136.177	177.399	1.00107.80
ATOM	17065	O	ALA	J	119	19.545	136.322	176.238	1.00107.33
ATOM	17066	CB	ALA	J	119	18.356	136.382	179.335	1.00106.48
ATOM	17067	N	ILE	J	120	21.103	136.655	177.832	1.00106.77
ATOM	17068	CA	ILE	J	120	21.995	137.410	176.964	1.00104.92
ATOM	17069	C	ILE	J	120	23.321	136.681	176.746	1.00103.80
ATOM	17070	O	ILE	J	120	23.948	136.214	177.694	1.00102.32
ATOM	17071	CB	ILE	J	120	22.280	138.816	177.559	1.00104.10
ATOM	17072	CG1	ILE	J	120	20.989	139.637	177.594	1.00102.21
ATOM	17073	CG2	ILE	J	120	23.339	139.531	176.740	1.00104.12
ATOM	17074	CD1	ILE	J	120	21.179	141.052	178.074	1.00100.17
ATOM	17075	N	LYS	J	121	23.733	136.584	175.486	1.00103.78
ATOM	17076	CA	LYS	J	121	24.992	135.934	175.130	1.00103.82
ATOM	17077	C	LYS	J	121	26.052	136.996	174.817	1.00103.91
ATOM	17078	O	LYS	J	121	25.845	137.851	173.952	1.00103.61
ATOM	17079	CB	LYS	J	121	24.807	135.020	173.908	1.00102.53
ATOM	17080	CG	LYS	J	121	24.088	133.702	174.190	1.00102.30
ATOM	17081	CD	LYS	J	121	22.637	133.906	174.607	1.00101.46
ATOM	17082	CE	LYS	J	121	21.970	132.590	174.984	1.00 97.87
ATOM	17083	NZ	LYS	J	121	21.994	131.605	173.876	1.00 95.23
ATOM	17084	N	ALA	J	122	27.177	136.943	175.527	1.00102.57
ATOM	17085	CA	ALA	J	122	28.266	137.891	175.321	1.00101.04
ATOM	17086	C	ALA	J	122	28.704	137.898	173.860	1.00100.61
ATOM	17087	O	ALA	J	122	29.072	136.855	173.317	1.00101.01
ATOM	17088	CB	ALA	J	122	29.443	137.525	176.206	1.00 99.43
ATOM	17089	N	GLY	J	123	28.662	139.070	173.226	1.00 99.97
ATOM	17090	CA	GLY	J	123	29.067	139.184	171.829	1.00 98.14
ATOM	17091	C	GLY	J	123	27.929	139.495	170.871	1.00 95.85
ATOM	17092	O	GLY	J	123	28.136	139.635	169.659	1.00 93.55
ATOM	17093	N	SER	J	124	26.723	139.594	171.428	1.00 94.87
ATOM	17094	CA	SER	J	124	25.518	139.893	170.662	1.00 92.47
ATOM	17095	C	SER	J	124	25.089	141.344	170.884	1.00 90.52
ATOM	17096	O	SER	J	124	25.347	141.933	171.940	1.00 90.12
ATOM	17097	CB	SER	J	124	24.373	138.948	171.065	1.00 93.10
ATOM	17098	OG	SER	J	124	23.928	139.182	172.394	1.00 93.09
ATOM	17099	N	LEU	J	125	24.437	141.910	169.873	1.00 88.27
ATOM	17100	CA	LEU	J	125	23.957	143.284	169.920	1.00 84.99
ATOM	17101	C	LEU	J	125	22.721	143.368	170.807	1.00 82.97
ATOM	17102	O	LEU	J	125	21.645	142.910	170.437	1.00 82.51
ATOM	17103	CB	LEU	J	125	23.639	143.762	168.499	1.00 84.01
ATOM	17104	CG	LEU	J	125	23.227	145.215	168.288	1.00 82.00
ATOM	17105	CD1	LEU	J	125	24.143	146.150	169.061	1.00 83.83
ATOM	17106	CD2	LEU	J	125	23.280	145.517	166.805	1.00 81.33
ATOM	17107	N	ILE	J	126	22.894	143.954	171.985	1.00 81.48
ATOM	17108	CA	ILE	J	126	21.821	144.103	172.963	1.00 80.98
ATOM	17109	C	ILE	J	126	20.782	145.151	172.564	1.00 80.08
ATOM	17110	O	ILE	J	126	19.573	144.948	172.726	1.00 79.78

ATOM	17111	CB	ILE	J	126	22.412	144.476	174.339	1.00	81.35
ATOM	17112	CG1	ILE	J	126	23.488	143.459	174.712	1.00	83.42
ATOM	17113	CG2	ILE	J	126	21.324	144.535	175.398	1.00	79.49
ATOM	17114	CD1	ILE	J	126	23.091	142.019	174.455	1.00	86.31
ATOM	17115	N	ALA	J	127	21.257	146.274	172.045	1.00	77.82
ATOM	17116	CA	ALA	J	127	20.366	147.337	171.630	1.00	76.45
ATOM	17117	C	ALA	J	127	21.061	148.264	170.647	1.00	75.75
ATOM	17118	O	ALA	J	127	22.242	148.095	170.331	1.00	76.85
ATOM	17119	CB	ALA	J	127	19.884	148.121	172.847	1.00	76.09
ATOM	17120	N	VAL	J	128	20.310	149.242	170.160	1.00	73.12
ATOM	17121	CA	VAL	J	128	20.826	150.213	169.215	1.00	71.24
ATOM	17122	C	VAL	J	128	20.134	151.531	169.524	1.00	72.55
ATOM	17123	O	VAL	J	128	18.987	151.752	169.116	1.00	72.72
ATOM	17124	CB	VAL	J	128	20.537	149.784	167.752	1.00	68.26
ATOM	17125	CG1	VAL	J	128	20.794	150.938	166.805	1.00	65.59
ATOM	17126	CG2	VAL	J	128	21.418	148.604	167.379	1.00	63.96
ATOM	17127	N	LEU	J	129	20.836	152.394	170.262	1.00	71.63
ATOM	17128	CA	LEU	J	129	20.308	153.696	170.649	1.00	69.88
ATOM	17129	C	LEU	J	129	20.803	154.783	169.714	1.00	69.55
ATOM	17130	O	LEU	J	129	22.001	155.050	169.659	1.00	70.36
ATOM	17131	CB	LEU	J	129	20.735	154.018	172.071	1.00	68.95
ATOM	17132	CG	LEU	J	129	20.342	152.925	173.063	1.00	70.58
ATOM	17133	CD1	LEU	J	129	20.906	153.274	174.427	1.00	70.59
ATOM	17134	CD2	LEU	J	129	18.821	152.773	173.111	1.00	68.65
ATOM	17135	N	ILE	J	130	19.877	155.403	168.982	1.00	67.96
ATOM	17136	CA	ILE	J	130	20.217	156.464	168.042	1.00	64.36
ATOM	17137	C	ILE	J	130	20.108	157.847	168.680	1.00	64.50
ATOM	17138	O	ILE	J	130	19.080	158.200	169.262	1.00	64.38
ATOM	17139	CB	ILE	J	130	19.310	156.433	166.804	1.00	61.21
ATOM	17140	CG1	ILE	J	130	19.482	155.118	166.040	1.00	62.45
ATOM	17141	CG2	ILE	J	130	19.659	157.586	165.891	1.00	62.73
ATOM	17142	CD1	ILE	J	130	18.842	153.913	166.701	1.00	62.64
ATOM	17143	N	LEU	J	131	21.184	158.620	168.563	1.00	62.73
ATOM	17144	CA	LEU	J	131	21.253	159.963	169.113	1.00	62.01
ATOM	17145	C	LEU	J	131	21.072	160.953	167.976	1.00	62.39
ATOM	17146	O	LEU	J	131	21.536	160.705	166.872	1.00	61.51
ATOM	17147	CB	LEU	J	131	22.613	160.156	169.795	1.00	61.41
ATOM	17148	CG	LEU	J	131	23.018	161.528	170.345	1.00	60.45
ATOM	17149	CD1	LEU	J	131	24.025	161.373	171.470	1.00	57.46
ATOM	17150	CD2	LEU	J	131	23.603	162.361	169.228	1.00	59.96
ATOM	17151	N	ARG	J	132	20.389	162.065	168.233	1.00	65.48
ATOM	17152	CA	ARG	J	132	20.174	163.069	167.187	1.00	67.12
ATOM	17153	C	ARG	J	132	20.533	164.477	167.654	1.00	66.37
ATOM	17154	O	ARG	J	132	19.961	164.986	168.621	1.00	65.66
ATOM	17155	CB	ARG	J	132	18.719	163.055	166.721	1.00	69.27
ATOM	17156	CG	ARG	J	132	18.497	163.801	165.416	1.00	71.69
ATOM	17157	CD	ARG	J	132	17.042	163.747	164.992	1.00	74.52
ATOM	17158	NE	ARG	J	132	16.880	163.976	163.560	1.00	78.29
ATOM	17159	CZ	ARG	J	132	15.713	163.941	162.924	1.00	78.42
ATOM	17160	NH1	ARG	J	132	14.599	163.690	163.601	1.00	77.98
ATOM	17161	NH2	ARG	J	132	15.663	164.146	161.612	1.00	77.03
ATOM	17162	N	ASN	J	133	21.474	165.107	166.959	1.00	67.22
ATOM	17163	CA	ASN	J	133	21.908	166.453	167.325	1.00	69.66
ATOM	17164	C	ASN	J	133	21.502	167.526	166.313	1.00	68.83
ATOM	17165	O	ASN	J	133	21.636	167.352	165.093	1.00	68.38
ATOM	17166	CB	ASN	J	133	23.433	166.487	167.547	1.00	71.32
ATOM	17167	CG	ASN	J	133	24.187	167.143	166.399	1.00	74.49
ATOM	17168	OD1	ASN	J	133	24.098	166.710	165.247	1.00	77.80
ATOM	17169	ND2	ASN	J	133	24.937	168.194	166.712	1.00	72.72
ATOM	17170	N	THR	J	134	20.995	168.633	166.850	1.00	67.04
ATOM	17171	CA	THR	J	134	20.557	169.771	166.057	1.00	65.12
ATOM	17172	C	THR	J	134	20.686	171.036	166.895	1.00	65.95

ATOM	17173	O	THR	J	134	19.975	171.217	167.879	1.00	65.49
ATOM	17174	CB	THR	J	134	19.100	169.621	165.618	1.00	61.38
ATOM	17175	OG1	THR	J	134	18.286	169.358	166.762	1.00	57.98
ATOM	17176	CG2	THR	J	134	18.961	168.495	164.619	1.00	58.29
ATOM	17177	N	ASN	J	135	21.601	171.905	166.482	1.00	67.46
ATOM	17178	CA	ASN	J	135	21.890	173.168	167.161	1.00	68.31
ATOM	17179	C	ASN	J	135	20.949	174.292	166.737	1.00	67.79
ATOM	17180	O	ASN	J	135	20.210	174.161	165.762	1.00	67.08
ATOM	17181	CB	ASN	J	135	23.329	173.589	166.844	1.00	68.81
ATOM	17182	CG	ASN	J	135	23.530	173.892	165.361	1.00	69.51
ATOM	17183	OD1	ASN	J	135	22.939	174.830	164.820	1.00	68.86
ATOM	17184	ND2	ASN	J	135	24.355	173.086	164.696	1.00	67.66
ATOM	17185	N	ASN	J	136	20.997	175.403	167.468	1.00	68.21
ATOM	17186	CA	ASN	J	136	20.168	176.557	167.147	1.00	70.34
ATOM	17187	C	ASN	J	136	20.990	177.573	166.356	1.00	73.07
ATOM	17188	O	ASN	J	136	20.837	178.783	166.523	1.00	73.76
ATOM	17189	CB	ASN	J	136	19.619	177.218	168.418	1.00	66.00
ATOM	17190	CG	ASN	J	136	20.678	177.968	169.198	1.00	64.76
ATOM	17191	OD1	ASN	J	136	20.358	178.841	170.006	1.00	61.65
ATOM	17192	ND2	ASN	J	136	21.946	177.628	168.969	1.00	66.18
ATOM	17193	N	TYR	J	137	21.871	177.073	165.497	1.00	76.58
ATOM	17194	CA	TYR	J	137	22.712	177.938	164.682	1.00	79.07
ATOM	17195	C	TYR	J	137	22.474	177.704	163.196	1.00	78.09
ATOM	17196	O	TYR	J	137	22.547	178.641	162.409	1.00	76.11
ATOM	17197	CB	TYR	J	137	24.190	177.707	165.008	1.00	84.38
ATOM	17198	CG	TYR	J	137	25.130	178.510	164.138	1.00	90.00
ATOM	17199	CD1	TYR	J	137	25.094	179.906	164.146	1.00	93.04
ATOM	17200	CD2	TYR	J	137	26.041	177.877	163.289	1.00	90.47
ATOM	17201	CE1	TYR	J	137	25.938	180.653	163.329	1.00	95.17
ATOM	17202	CE2	TYR	J	137	26.890	178.614	162.468	1.00	93.23
ATOM	17203	CZ	TYR	J	137	26.833	180.001	162.491	1.00	95.34
ATOM	17204	OH	TYR	J	137	27.648	180.736	161.660	1.00	97.52
ATOM	17205	N	ASN	J	138	22.200	176.454	162.821	1.00	78.81
ATOM	17206	CA	ASN	J	138	21.942	176.097	161.423	1.00	79.53
ATOM	17207	C	ASN	J	138	21.131	174.808	161.266	1.00	79.60
ATOM	17208	O	ASN	J	138	20.697	174.216	162.254	1.00	80.67
ATOM	17209	CB	ASN	J	138	23.258	175.974	160.653	1.00	79.56
ATOM	17210	CG	ASN	J	138	24.172	174.917	161.220	1.00	79.78
ATOM	17211	OD1	ASN	J	138	25.292	174.755	160.756	1.00	82.12
ATOM	17212	ND2	ASN	J	138	23.701	174.190	162.225	1.00	81.56
ATOM	17213	N	SER	J	139	20.933	174.374	160.023	1.00	79.44
ATOM	17214	CA	SER	J	139	20.156	173.167	159.749	1.00	80.19
ATOM	17215	C	SER	J	139	20.973	171.881	159.854	1.00	80.29
ATOM	17216	O	SER	J	139	20.790	170.946	159.069	1.00	78.87
ATOM	17217	CB	SER	J	139	19.502	173.254	158.361	1.00	80.88
ATOM	17218	OG	SER	J	139	20.472	173.256	157.327	1.00	81.33
ATOM	17219	N	ASP	J	140	21.874	171.836	160.830	1.00	80.53
ATOM	17220	CA	ASP	J	140	22.692	170.651	161.037	1.00	80.72
ATOM	17221	C	ASP	J	140	21.932	169.594	161.833	1.00	80.63
ATOM	17222	O	ASP	J	140	21.634	169.776	163.014	1.00	80.68
ATOM	17223	CB	ASP	J	140	23.989	171.002	161.769	1.00	81.17
ATOM	17224	CG	ASP	J	140	25.167	171.146	160.828	1.00	81.69
ATOM	17225	OD1	ASP	J	140	24.945	171.223	159.604	1.00	80.57
ATOM	17226	OD2	ASP	J	140	26.317	171.182	161.314	1.00	84.76
ATOM	17227	N	ASP	J	141	21.616	168.491	161.166	1.00	79.97
ATOM	17228	CA	ASP	J	141	20.905	167.381	161.779	1.00	78.68
ATOM	17229	C	ASP	J	141	21.787	166.158	161.573	1.00	78.76
ATOM	17230	O	ASP	J	141	21.910	165.653	160.453	1.00	78.36
ATOM	17231	CB	ASP	J	141	19.551	167.176	161.088	1.00	78.67
ATOM	17232	CG	ASP	J	141	18.757	166.013	161.668	1.00	77.39
ATOM	17233	OD1	ASP	J	141	19.297	164.890	161.762	1.00	78.20
ATOM	17234	OD2	ASP	J	141	17.581	166.222	162.021	1.00	76.49

ATOM	17235	N	PHE	J	142	22.411	165.691	162.648	1.00	77.97
ATOM	17236	CA	PHE	J	142	23.280	164.526	162.558	1.00	77.20
ATOM	17237	C	PHE	J	142	22.732	163.351	163.359	1.00	77.20
ATOM	17238	O	PHE	J	142	21.791	163.508	164.133	1.00	77.57
ATOM	17239	CB	PHE	J	142	24.685	164.906	163.031	1.00	74.71
ATOM	17240	CG	PHE	J	142	25.405	165.842	162.092	1.00	75.15
ATOM	17241	CD1	PHE	J	142	25.143	165.816	160.718	1.00	73.89
ATOM	17242	CD2	PHE	J	142	26.344	166.749	162.575	1.00	76.06
ATOM	17243	CE1	PHE	J	142	25.801	166.678	159.843	1.00	71.74
ATOM	17244	CE2	PHE	J	142	27.012	167.622	161.701	1.00	74.85
ATOM	17245	CZ	PHE	J	142	26.737	167.583	160.335	1.00	72.65
ATOM	17246	N	GLN	J	143	23.303	162.168	163.157	1.00	78.37
ATOM	17247	CA	GLN	J	143	22.846	160.990	163.883	1.00	79.36
ATOM	17248	C	GLN	J	143	23.943	160.082	164.406	1.00	78.57
ATOM	17249	O	GLN	J	143	24.262	159.063	163.793	1.00	78.68
ATOM	17250	CB	GLN	J	143	21.896	160.156	163.029	1.00	81.38
ATOM	17251	CG	GLN	J	143	20.512	160.748	162.890	1.00	87.66
ATOM	17252	CD	GLN	J	143	19.459	159.688	162.597	1.00	91.74
ATOM	17253	OE1	GLN	J	143	19.624	158.858	161.698	1.00	92.05
ATOM	17254	NE2	GLN	J	143	18.366	159.715	163.359	1.00	92.52
ATOM	17255	N	PHE	J	144	24.512	160.453	165.548	1.00	77.83
ATOM	17256	CA	PHE	J	144	25.547	159.650	166.184	1.00	76.94
ATOM	17257	C	PHE	J	144	24.866	158.349	166.619	1.00	75.01
ATOM	17258	O	PHE	J	144	23.901	158.384	167.379	1.00	75.60
ATOM	17259	CB	PHE	J	144	26.099	160.366	167.423	1.00	78.13
ATOM	17260	CG	PHE	J	144	26.709	161.714	167.137	1.00	79.31
ATOM	17261	CD1	PHE	J	144	25.951	162.738	166.579	1.00	78.32
ATOM	17262	CD2	PHE	J	144	28.039	161.968	167.456	1.00	78.38
ATOM	17263	CE1	PHE	J	144	26.510	163.989	166.344	1.00	77.66
ATOM	17264	CE2	PHE	J	144	28.604	163.216	167.223	1.00	77.77
ATOM	17265	CZ	PHE	J	144	27.838	164.227	166.668	1.00	76.75
ATOM	17266	N	VAL	J	145	25.358	157.210	166.143	1.00	72.69
ATOM	17267	CA	VAL	J	145	24.767	155.927	166.505	1.00	70.81
ATOM	17268	C	VAL	J	145	25.596	155.166	167.538	1.00	71.52
ATOM	17269	O	VAL	J	145	26.794	155.403	167.693	1.00	71.57
ATOM	17270	CB	VAL	J	145	24.590	155.031	165.269	1.00	69.02
ATOM	17271	CG1	VAL	J	145	23.853	153.766	165.653	1.00	67.50
ATOM	17272	CG2	VAL	J	145	23.845	155.784	164.189	1.00	67.12
ATOM	17273	N	TRP	J	146	24.937	154.256	168.247	1.00	73.02
ATOM	17274	CA	TRP	J	146	25.580	153.433	169.269	1.00	75.67
ATOM	17275	C	TRP	J	146	24.997	152.011	169.233	1.00	76.54
ATOM	17276	O	TRP	J	146	23.777	151.830	169.175	1.00	76.88
ATOM	17277	CB	TRP	J	146	25.358	154.021	170.675	1.00	75.00
ATOM	17278	CG	TRP	J	146	25.619	155.497	170.812	1.00	75.27
ATOM	17279	CD1	TRP	J	146	24.695	156.499	170.767	1.00	74.89
ATOM	17280	CD2	TRP	J	146	26.889	156.134	171.021	1.00	76.21
ATOM	17281	NE1	TRP	J	146	25.306	157.718	170.936	1.00	74.57
ATOM	17282	CE2	TRP	J	146	26.652	157.522	171.093	1.00	74.93
ATOM	17283	CE3	TRP	J	146	28.203	155.665	171.156	1.00	77.33
ATOM	17284	CZ2	TRP	J	146	27.680	158.447	171.294	1.00	76.23
ATOM	17285	CZ3	TRP	J	146	29.225	156.589	171.359	1.00	77.34
ATOM	17286	CH2	TRP	J	146	28.954	157.963	171.425	1.00	76.38
ATOM	17287	N	ASN	J	147	25.869	151.007	169.274	1.00	76.78
ATOM	17288	CA	ASN	J	147	25.433	149.614	169.254	1.00	76.49
ATOM	17289	C	ASN	J	147	25.804	148.954	170.577	1.00	76.35
ATOM	17290	O	ASN	J	147	26.958	148.610	170.809	1.00	77.80
ATOM	17291	CB	ASN	J	147	26.099	148.869	168.097	1.00	74.48
ATOM	17292	CG	ASN	J	147	25.908	149.569	166.773	1.00	73.76
ATOM	17293	OD1	ASN	J	147	24.786	149.810	166.343	1.00	73.52
ATOM	17294	ND2	ASN	J	147	27.010	149.903	166.117	1.00	77.26
ATOM	17295	N	ILE	J	148	24.819	148.777	171.443	1.00	75.49
ATOM	17296	CA	ILE	J	148	25.060	148.173	172.739	1.00	76.38

ATOM	17297	C	ILE	J	148	25.242	146.658	172.689	1.00	79.28
ATOM	17298	O	ILE	J	148	24.287	145.923	172.429	1.00	79.55
ATOM	17299	CB	ILE	J	148	23.912	148.505	173.710	1.00	74.07
ATOM	17300	CG1	ILE	J	148	24.007	149.971	174.143	1.00	73.75
ATOM	17301	CG2	ILE	J	148	23.975	147.592	174.931	1.00	72.31
ATOM	17302	CD1	ILE	J	148	24.060	150.962	173.005	1.00	73.88
ATOM	17303	N	TYR	J	149	26.473	146.202	172.946	1.00	81.48
ATOM	17304	CA	TYR	J	149	26.805	144.776	172.961	1.00	81.74
ATOM	17305	C	TYR	J	149	27.039	144.286	174.377	1.00	83.63
ATOM	17306	O	TYR	J	149	27.314	145.077	175.283	1.00	83.34
ATOM	17307	CB	TYR	J	149	28.062	144.491	172.151	1.00	79.29
ATOM	17308	CG	TYR	J	149	27.863	144.499	170.659	1.00	79.75
ATOM	17309	CD1	TYR	J	149	27.479	143.338	169.984	1.00	80.01
ATOM	17310	CD2	TYR	J	149	28.100	145.646	169.911	1.00	79.68
ATOM	17311	CE1	TYR	J	149	27.344	143.316	168.600	1.00	79.96
ATOM	17312	CE2	TYR	J	149	27.969	145.636	168.527	1.00	81.54
ATOM	17313	CZ	TYR	J	149	27.594	144.466	167.877	1.00	81.53
ATOM	17314	OH	TYR	J	149	27.487	144.440	166.504	1.00	83.55
ATOM	17315	N	ALA	J	150	26.946	142.972	174.560	1.00	86.88
ATOM	17316	CA	ALA	J	150	27.145	142.363	175.876	1.00	90.48
ATOM	17317	C	ALA	J	150	28.457	141.584	175.967	1.00	90.66
ATOM	17318	O	ALA	J	150	28.676	140.632	175.223	1.00	89.63
ATOM	17319	CB	ALA	J	150	25.973	141.442	176.203	1.00	90.99
ATOM	17320	N	ASN	J	151	29.325	141.996	176.884	1.00	92.00
ATOM	17321	CA	ASN	J	151	30.605	141.327	177.062	1.00	94.45
ATOM	17322	C	ASN	J	151	30.418	140.047	177.857	1.00	94.90
ATOM	17323	O	ASN	J	151	31.159	139.076	177.674	1.00	95.82
ATOM	17324	CB	ASN	J	151	31.599	142.244	177.785	1.00	95.15
ATOM	17325	CG	ASN	J	151	32.182	143.310	176.872	1.00	96.28
ATOM	17326	OD1	ASN	J	151	32.923	143.009	175.928	1.00	96.48
ATOM	17327	ND2	ASN	J	151	31.849	144.563	177.146	1.00	94.84
ATOM	17328	N	ASN	J	152	29.418	140.050	178.734	1.00	94.62
ATOM	17329	CA	ASN	J	152	29.132	138.891	179.567	1.00	94.08
ATOM	17330	C	ASN	J	152	27.841	138.197	179.157	1.00	95.42
ATOM	17331	O	ASN	J	152	27.376	138.326	178.020	1.00	94.91
ATOM	17332	CB	ASN	J	152	29.032	139.305	181.033	1.00	89.95
ATOM	17333	CG	ASN	J	152	27.862	140.217	181.294	1.00	87.51
ATOM	17334	OD1	ASN	J	152	27.765	141.300	180.719	1.00	87.08
ATOM	17335	ND2	ASN	J	152	26.960	139.784	182.164	1.00	87.01
ATOM	17336	N	ASP	J	153	27.273	137.457	180.103	1.00	96.36
ATOM	17337	CA	ASP	J	153	26.039	136.720	179.882	1.00	97.15
ATOM	17338	C	ASP	J	153	25.163	136.787	181.123	1.00	97.65
ATOM	17339	O	ASP	J	153	25.457	136.149	182.134	1.00	96.82
ATOM	17340	CB	ASP	J	153	26.345	135.252	179.553	1.00	96.39
ATOM	17341	CG	ASP	J	153	26.831	135.058	178.128	1.00	95.90
ATOM	17342	OD1	ASP	J	153	27.738	135.804	177.704	1.00	94.89
ATOM	17343	OD2	ASP	J	153	26.310	134.155	177.435	1.00	94.81
ATOM	17344	N	VAL	J	154	24.091	137.568	181.049	1.00	99.11
ATOM	17345	CA	VAL	J	154	23.170	137.686	182.172	1.00	100.29
ATOM	17346	C	VAL	J	154	22.478	136.339	182.361	1.00	100.51
ATOM	17347	O	VAL	J	154	22.343	135.554	181.419	1.00	100.01
ATOM	17348	CB	VAL	J	154	22.087	138.779	181.929	1.00	100.71
ATOM	17349	CG1	VAL	J	154	21.132	138.857	183.128	1.00	99.41
ATOM	17350	CG2	VAL	J	154	22.752	140.132	181.696	1.00	99.52
ATOM	17351	N	VAL	J	155	22.052	136.069	183.586	1.00	100.71
ATOM	17352	CA	VAL	J	155	21.379	134.823	183.881	1.00	100.55
ATOM	17353	C	VAL	J	155	20.053	135.098	184.567	1.00	101.67
ATOM	17354	O	VAL	J	155	19.950	135.976	185.425	1.00	100.30
ATOM	17355	CB	VAL	J	155	22.246	133.920	184.778	1.00	100.07
ATOM	17356	CG1	VAL	J	155	21.495	132.642	185.110	1.00	99.04
ATOM	17357	CG2	VAL	J	155	23.555	133.604	184.074	1.00	96.73
ATOM	17358	N	VAL	J	156	19.037	134.347	184.159	1.00	103.16

ATOM	17359	CA	VAL	J	156	17.702	134.474	184.721	1.00104.53
ATOM	17360	C	VAL	J	156	17.449	133.236	185.577	1.00105.66
ATOM	17361	O	VAL	J	156	16.846	132.258	185.122	1.00105.49
ATOM	17362	CB	VAL	J	156	16.625	134.557	183.611	1.00103.96
ATOM	17363	CG1	VAL	J	156	15.260	134.835	184.232	1.00101.75
ATOM	17364	CG2	VAL	J	156	16.995	135.640	182.601	1.00102.51
ATOM	17365	N	PRO	J	157	17.927	133.260	186.831	1.00106.29
ATOM	17366	CA	PRO	J	157	17.763	132.147	187.765	1.00106.63
ATOM	17367	C	PRO	J	157	16.428	131.428	187.660	1.00106.66
ATOM	17368	O	PRO	J	157	15.388	131.970	188.030	1.00106.18
ATOM	17369	CB	PRO	J	157	17.969	132.816	189.114	1.00106.17
ATOM	17370	CG	PRO	J	157	19.076	133.763	188.803	1.00106.22
ATOM	17371	CD	PRO	J	157	18.647	134.372	187.478	1.00105.67
ATOM	17372	N	THR	J	158	16.476	130.205	187.134	1.00107.66
ATOM	17373	CA	THR	J	158	15.290	129.379	186.995	1.00108.51
ATOM	17374	C	THR	J	158	14.730	129.171	188.402	1.00110.75
ATOM	17375	O	THR	J	158	15.374	128.563	189.263	1.00110.68
ATOM	17376	CB	THR	J	158	15.636	128.018	186.343	1.00106.39
ATOM	17377	OG1	THR	J	158	14.474	127.183	186.331	1.00104.47
ATOM	17378	CG2	THR	J	158	16.752	127.322	187.107	1.00106.32
ATOM	17379	N	GLY	J	159	13.532	129.700	188.630	1.00113.42
ATOM	17380	CA	GLY	J	159	12.904	129.595	189.933	1.00116.92
ATOM	17381	C	GLY	J	159	12.059	128.360	190.163	1.00119.41
ATOM	17382	O	GLY	J	159	11.936	127.499	189.290	1.00118.86
ATOM	17383	N	GLY	J	160	11.464	128.293	191.351	1.00122.09
ATOM	17384	CA	GLY	J	160	10.636	127.162	191.727	1.00125.68
ATOM	17385	C	GLY	J	160	9.409	126.920	190.870	1.00127.96
ATOM	17386	O	GLY	J	160	8.811	127.854	190.334	1.00127.67
ATOM	17387	N	CYS	J	161	9.039	125.649	190.740	1.00130.41
ATOM	17388	CA	CYS	J	161	7.876	125.263	189.959	1.00132.80
ATOM	17389	C	CYS	J	161	6.645	125.519	190.803	1.00134.79
ATOM	17390	O	CYS	J	161	6.518	124.993	191.912	1.00134.98
ATOM	17391	CB	CYS	J	161	7.961	123.788	189.584	1.00132.00
ATOM	17392	SG	CYS	J	161	9.467	123.406	188.643	1.00133.92
ATOM	17393	N	ASP	J	162	5.744	126.340	190.279	1.00136.88
ATOM	17394	CA	ASP	J	162	4.529	126.677	190.997	1.00138.98
ATOM	17395	C	ASP	J	162	3.694	125.435	191.252	1.00139.59
ATOM	17396	O	ASP	J	162	3.001	124.938	190.360	1.00139.29
ATOM	17397	CB	ASP	J	162	3.719	127.712	190.213	1.00140.79
ATOM	17398	CG	ASP	J	162	2.485	128.188	190.968	1.00142.58
ATOM	17399	OD1	ASP	J	162	2.613	128.537	192.162	1.00142.95
ATOM	17400	OD2	ASP	J	162	1.390	128.223	190.366	1.00143.26
ATOM	17401	N	VAL	J	163	3.792	124.929	192.478	1.00140.24
ATOM	17402	CA	VAL	J	163	3.040	123.755	192.896	1.00140.42
ATOM	17403	C	VAL	J	163	1.717	124.279	193.434	1.00140.17
ATOM	17404	O	VAL	J	163	1.550	124.465	194.640	1.00140.14
ATOM	17405	CB	VAL	J	163	3.782	122.982	194.009	1.00140.44
ATOM	17406	CG1	VAL	J	163	2.958	121.779	194.447	1.00140.29
ATOM	17407	CG2	VAL	J	163	5.154	122.539	193.507	1.00140.33
ATOM	17408	N	SER	J	164	0.785	124.531	192.522	1.00139.94
ATOM	17409	CA	SER	J	164	-0.520	125.057	192.887	1.00139.67
ATOM	17410	C	SER	J	164	-1.484	124.011	193.422	1.00140.10
ATOM	17411	O	SER	J	164	-1.823	123.046	192.736	1.00140.30
ATOM	17412	CB	SER	J	164	-1.153	125.767	191.689	1.00138.90
ATOM	17413	OG	SER	J	164	-0.465	126.966	191.391	1.00137.72
ATOM	17414	N	ALA	J	165	-1.915	124.218	194.662	1.00140.26
ATOM	17415	CA	ALA	J	165	-2.865	123.334	195.320	1.00140.49
ATOM	17416	C	ALA	J	165	-4.173	124.115	195.414	1.00140.73
ATOM	17417	O	ALA	J	165	-4.244	125.262	194.968	1.00140.90
ATOM	17418	CB	ALA	J	165	-2.364	122.968	196.713	1.00140.34
ATOM	17419	N	ARG	J	166	-5.205	123.507	195.989	1.00140.73
ATOM	17420	CA	ARG	J	166	-6.484	124.194	196.118	1.00140.21

ATOM	17421	C	ARG	J	166	-6.724	124.707	197.540	1.00140.78
ATOM	17422	O	ARG	J	166	-6.788	125.918	197.763	1.00140.48
ATOM	17423	CB	ARG	J	166	-7.630	123.272	195.683	1.00137.99
ATOM	17424	CG	ARG	J	166	-7.418	122.631	194.321	1.00134.37
ATOM	17425	CD	ARG	J	166	-7.004	123.644	193.268	1.00132.55
ATOM	17426	NE	ARG	J	166	-6.638	123.012	192.002	1.00129.93
ATOM	17427	CZ	ARG	J	166	-7.486	122.354	191.218	1.00128.82
ATOM	17428	NH1	ARG	J	166	-8.759	122.236	191.564	1.00127.97
ATOM	17429	NH2	ARG	J	166	-7.060	121.817	190.083	1.00128.31
ATOM	17430	N	ASP	J	167	-6.847	123.794	198.500	1.00141.35
ATOM	17431	CA	ASP	J	167	-7.086	124.187	199.885	1.00142.56
ATOM	17432	C	ASP	J	167	-6.904	123.035	200.870	1.00143.89
ATOM	17433	O	ASP	J	167	-5.819	122.835	201.423	1.00143.59
ATOM	17434	CB	ASP	J	167	-8.503	124.758	200.025	1.00142.43
ATOM	17435	CG	ASP	J	167	-8.811	125.239	201.437	1.00142.38
ATOM	17436	OD1	ASP	J	167	-7.910	125.194	202.301	1.00142.73
ATOM	17437	OD2	ASP	J	167	-9.960	125.668	201.684	1.00141.57
ATOM	17438	N	VAL	J	168	-7.978	122.283	201.089	1.00145.36
ATOM	17439	CA	VAL	J	168	-7.960	121.160	202.017	1.00146.54
ATOM	17440	C	VAL	J	168	-9.024	120.127	201.644	1.00147.11
ATOM	17441	O	VAL	J	168	-10.202	120.296	201.954	1.00147.34
ATOM	17442	CB	VAL	J	168	-8.193	121.655	203.470	1.00146.85
ATOM	17443	CG1	VAL	J	168	-9.416	122.560	203.527	1.00147.60
ATOM	17444	CG2	VAL	J	168	-8.372	120.480	204.403	1.00146.48
ATOM	17445	N	THR	J	169	-8.600	119.061	200.970	1.00148.23
ATOM	17446	CA	THR	J	169	-9.512	118.001	200.552	1.00149.64
ATOM	17447	C	THR	J	169	-10.391	117.565	201.718	1.00150.40
ATOM	17448	O	THR	J	169	-9.928	116.903	202.647	1.00150.34
ATOM	17449	CB	THR	J	169	-8.739	116.771	200.010	1.00150.00
ATOM	17450	OG1	THR	J	169	-8.066	117.123	198.793	1.00150.39
ATOM	17451	CG2	THR	J	169	-9.693	115.614	199.736	1.00150.19
ATOM	17452	N	VAL	J	170	-11.665	117.941	201.653	1.00151.30
ATOM	17453	CA	VAL	J	170	-12.630	117.618	202.698	1.00152.05
ATOM	17454	C	VAL	J	170	-13.353	116.293	202.443	1.00152.97
ATOM	17455	O	VAL	J	170	-14.546	116.280	202.137	1.00153.54
ATOM	17456	CB	VAL	J	170	-13.684	118.740	202.819	1.00151.52
ATOM	17457	CG1	VAL	J	170	-14.571	118.497	204.017	1.00151.18
ATOM	17458	CG2	VAL	J	170	-12.995	120.082	202.927	1.00150.72
ATOM	17459	N	THR	J	171	-12.633	115.182	202.575	1.00153.54
ATOM	17460	CA	THR	J	171	-13.221	113.864	202.358	1.00154.45
ATOM	17461	C	THR	J	171	-14.161	113.467	203.500	1.00155.30
ATOM	17462	O	THR	J	171	-13.920	112.492	204.211	1.00155.04
ATOM	17463	CB	THR	J	171	-12.121	112.785	202.186	1.00154.23
ATOM	17464	OG1	THR	J	171	-12.717	111.481	202.189	1.00154.54
ATOM	17465	CG2	THR	J	171	-11.095	112.884	203.300	1.00153.75
ATOM	17466	N	LEU	J	172	-15.244	114.229	203.650	1.00156.47
ATOM	17467	CA	LEU	J	172	-16.250	113.992	204.689	1.00157.92
ATOM	17468	C	LEU	J	172	-16.980	112.646	204.566	1.00159.25
ATOM	17469	O	LEU	J	172	-17.419	112.087	205.578	1.00159.44
ATOM	17470	CB	LEU	J	172	-17.278	115.143	204.703	1.00156.88
ATOM	17471	CG	LEU	J	172	-18.409	115.191	205.749	1.00154.95
ATOM	17472	CD1	LEU	J	172	-19.004	116.591	205.787	1.00152.80
ATOM	17473	CD2	LEU	J	172	-19.494	114.171	205.427	1.00153.59
ATOM	17474	N	PRO	J	173	-17.125	112.108	203.334	1.00160.04
ATOM	17475	CA	PRO	J	173	-17.824	110.823	203.227	1.00160.48
ATOM	17476	C	PRO	J	173	-17.330	109.796	204.244	1.00160.76
ATOM	17477	O	PRO	J	173	-16.159	109.798	204.629	1.00160.95
ATOM	17478	CB	PRO	J	173	-17.562	110.401	201.777	1.00160.15
ATOM	17479	CG	PRO	J	173	-16.298	111.134	201.414	1.00159.46
ATOM	17480	CD	PRO	J	173	-16.547	112.481	202.031	1.00159.80
ATOM	17481	N	ASP	J	174	-18.237	108.929	204.682	1.00160.85
ATOM	17482	CA	ASP	J	174	-17.910	107.903	205.660	1.00161.11

ATOM	17483	C	ASP	J	174	-16.667	107.108	205.282	1.00161.63
ATOM	17484	O	ASP	J	174	-15.956	107.448	204.336	1.00161.55
ATOM	17485	CB	ASP	J	174	-19.102	106.960	205.842	1.00160.85
ATOM	17486	CG	ASP	J	174	-20.306	107.657	206.451	1.00161.07
ATOM	17487	OD1	ASP	J	174	-20.746	108.685	205.894	1.00160.83
ATOM	17488	OD2	ASP	J	174	-20.813	107.177	207.487	1.00161.25
ATOM	17489	N	TYR	J	175	-16.419	106.041	206.032	1.00162.18
ATOM	17490	CA	TYR	J	175	-15.260	105.181	205.816	1.00162.79
ATOM	17491	C	TYR	J	175	-14.932	104.839	204.348	1.00162.44
ATOM	17492	O	TYR	J	175	-13.771	104.915	203.937	1.00162.70
ATOM	17493	CB	TYR	J	175	-15.428	103.891	206.635	1.00163.42
ATOM	17494	CG	TYR	J	175	-14.244	102.948	206.570	1.00164.42
ATOM	17495	CD1	TYR	J	175	-12.949	103.397	206.848	1.00164.51
ATOM	17496	CD2	TYR	J	175	-14.416	101.606	206.226	1.00164.61
ATOM	17497	CE1	TYR	J	175	-11.857	102.532	206.782	1.00164.08
ATOM	17498	CE2	TYR	J	175	-13.332	100.735	206.158	1.00164.50
ATOM	17499	CZ	TYR	J	175	-12.058	101.205	206.436	1.00164.13
ATOM	17500	OH	TYR	J	175	-10.990	100.346	206.359	1.00163.95
ATOM	17501	N	PRO	J	176	-15.943	104.468	203.539	1.00161.47
ATOM	17502	CA	PRO	J	176	-15.670	104.131	202.137	1.00160.31
ATOM	17503	C	PRO	J	176	-15.326	105.325	201.245	1.00159.75
ATOM	17504	O	PRO	J	176	-14.836	105.149	200.130	1.00159.69
ATOM	17505	CB	PRO	J	176	-16.957	103.443	201.701	1.00160.19
ATOM	17506	CG	PRO	J	176	-17.994	104.204	202.463	1.00160.45
ATOM	17507	CD	PRO	J	176	-17.376	104.297	203.846	1.00161.16
ATOM	17508	N	GLY	J	177	-15.577	106.531	201.746	1.00159.07
ATOM	17509	CA	GLY	J	177	-15.309	107.736	200.977	1.00158.42
ATOM	17510	C	GLY	J	177	-13.863	108.013	200.596	1.00157.96
ATOM	17511	O	GLY	J	177	-13.019	108.258	201.459	1.00157.53
ATOM	17512	N	SER	J	178	-13.589	107.984	199.291	1.00157.54
ATOM	17513	CA	SER	J	178	-12.252	108.245	198.751	1.00156.62
ATOM	17514	C	SER	J	178	-12.340	109.100	197.477	1.00155.36
ATOM	17515	O	SER	J	178	-12.648	108.596	196.392	1.00154.64
ATOM	17516	CB	SER	J	178	-11.529	106.924	198.446	1.00157.14
ATOM	17517	OG	SER	J	178	-12.184	106.191	197.425	1.00158.16
ATOM	17518	N	VAL	J	179	-12.068	110.396	197.623	1.00154.08
ATOM	17519	CA	VAL	J	179	-12.122	111.343	196.509	1.00152.27
ATOM	17520	C	VAL	J	179	-10.728	111.722	196.012	1.00150.73
ATOM	17521	O	VAL	J	179	-9.766	111.713	196.780	1.00151.58
ATOM	17522	CB	VAL	J	179	-12.848	112.656	196.921	1.00152.39
ATOM	17523	CG1	VAL	J	179	-14.288	112.363	197.317	1.00152.26
ATOM	17524	CG2	VAL	J	179	-12.103	113.325	198.075	1.00151.13
ATOM	17525	N	PRO	J	180	-10.601	112.054	194.714	1.00148.49
ATOM	17526	CA	PRO	J	180	-9.303	112.440	194.150	1.00146.70
ATOM	17527	C	PRO	J	180	-8.867	113.821	194.659	1.00145.56
ATOM	17528	O	PRO	J	180	-9.671	114.755	194.720	1.00144.75
ATOM	17529	CB	PRO	J	180	-9.560	112.410	192.645	1.00145.97
ATOM	17530	CG	PRO	J	180	-11.001	112.778	192.549	1.00146.51
ATOM	17531	CD	PRO	J	180	-11.620	111.960	193.654	1.00147.49
ATOM	17532	N	ILE	J	181	-7.592	113.939	195.026	1.00144.48
ATOM	17533	CA	ILE	J	181	-7.045	115.186	195.556	1.00143.23
ATOM	17534	C	ILE	J	181	-6.529	116.139	194.482	1.00142.84
ATOM	17535	O	ILE	J	181	-5.785	115.738	193.583	1.00143.06
ATOM	17536	CB	ILE	J	181	-5.889	114.910	196.537	1.00142.34
ATOM	17537	CG1	ILE	J	181	-6.343	113.920	197.611	1.00142.33
ATOM	17538	CG2	ILE	J	181	-5.435	116.212	197.179	1.00141.90
ATOM	17539	CD1	ILE	J	181	-5.230	113.440	198.513	1.00141.91
ATOM	17540	N	PRO	J	182	-6.919	117.423	194.570	1.00142.06
ATOM	17541	CA	PRO	J	182	-6.518	118.475	193.626	1.00141.18
ATOM	17542	C	PRO	J	182	-5.050	118.891	193.775	1.00140.38
ATOM	17543	O	PRO	J	182	-4.645	119.362	194.838	1.00140.43
ATOM	17544	CB	PRO	J	182	-7.470	119.620	193.965	1.00141.09

ATOM	17545	CG	PRO	J	182	-8.661	118.931	194.569	1.00140.73
ATOM	17546	CD	PRO	J	182	-8.009	117.900	195.439	1.00141.08
ATOM	17547	N	LEU	J	183	-4.267	118.730	192.708	1.00139.35
ATOM	17548	CA	LEU	J	183	-2.846	119.085	192.730	1.00138.46
ATOM	17549	C	LEU	J	183	-2.162	119.071	191.357	1.00137.57
ATOM	17550	O	LEU	J	183	-2.252	118.092	190.621	1.00136.53
ATOM	17551	CB	LEU	J	183	-2.096	118.144	193.678	1.00138.35
ATOM	17552	CG	LEU	J	183	-2.049	118.525	195.161	1.00137.84
ATOM	17553	CD1	LEU	J	183	-2.094	117.281	196.027	1.00137.02
ATOM	17554	CD2	LEU	J	183	-0.792	119.338	195.431	1.00138.36
ATOM	17555	N	THR	J	184	-1.476	120.167	191.030	1.00137.05
ATOM	17556	CA	THR	J	184	-0.748	120.311	189.765	1.00136.16
ATOM	17557	C	THR	J	184	0.507	121.158	189.988	1.00136.34
ATOM	17558	O	THR	J	184	0.560	121.967	190.919	1.00136.24
ATOM	17559	CB	THR	J	184	-1.601	121.008	188.681	1.00135.54
ATOM	17560	OG1	THR	J	184	-1.994	122.309	189.140	1.00134.26
ATOM	17561	CG2	THR	J	184	-2.836	120.191	188.364	1.00134.55
ATOM	17562	N	VAL	J	185	1.516	120.978	189.139	1.00135.73
ATOM	17563	CA	VAL	J	185	2.757	121.742	189.267	1.00135.53
ATOM	17564	C	VAL	J	185	3.334	122.126	187.907	1.00135.23
ATOM	17565	O	VAL	J	185	3.158	121.404	186.925	1.00134.74
ATOM	17566	CB	VAL	J	185	3.835	120.951	190.042	1.00135.76
ATOM	17567	CG1	VAL	J	185	3.316	120.571	191.415	1.00135.16
ATOM	17568	CG2	VAL	J	185	4.232	119.713	189.261	1.00136.52
ATOM	17569	N	TYR	J	186	4.028	123.262	187.861	1.00134.89
ATOM	17570	CA	TYR	J	186	4.630	123.750	186.621	1.00134.19
ATOM	17571	C	TYR	J	186	5.735	124.779	186.862	1.00132.75
ATOM	17572	O	TYR	J	186	5.794	125.400	187.924	1.00131.47
ATOM	17573	CB	TYR	J	186	3.544	124.343	185.715	1.00136.14
ATOM	17574	CG	TYR	J	186	2.500	125.146	186.457	1.00138.62
ATOM	17575	CD1	TYR	J	186	2.818	126.370	187.042	1.00139.23
ATOM	17576	CD2	TYR	J	186	1.198	124.664	186.601	1.00140.01
ATOM	17577	CE1	TYR	J	186	1.866	127.096	187.751	1.00139.71
ATOM	17578	CE2	TYR	J	186	0.237	125.383	187.314	1.00140.95
ATOM	17579	CZ	TYR	J	186	0.580	126.600	187.887	1.00140.87
ATOM	17580	OH	TYR	J	186	-0.358	127.319	188.596	1.00141.32
ATOM	17581	N	CYS	J	187	6.605	124.947	185.865	1.00131.71
ATOM	17582	CA	CYS	J	187	7.728	125.885	185.939	1.00130.40
ATOM	17583	C	CYS	J	187	7.888	126.698	184.654	1.00128.38
ATOM	17584	O	CYS	J	187	7.645	126.195	183.553	1.00127.56
ATOM	17585	CB	CYS	J	187	9.041	125.133	186.185	1.00131.71
ATOM	17586	SG	CYS	J	187	8.850	123.401	186.707	1.00132.90
ATOM	17587	N	ALA	J	188	8.311	127.950	184.801	1.00126.02
ATOM	17588	CA	ALA	J	188	8.529	128.817	183.652	1.00123.73
ATOM	17589	C	ALA	J	188	9.409	128.037	182.687	1.00122.13
ATOM	17590	O	ALA	J	188	9.182	128.022	181.477	1.00120.64
ATOM	17591	CB	ALA	J	188	9.230	130.097	184.092	1.00124.54
ATOM	17592	N	LYS	J	189	10.416	127.382	183.255	1.00121.25
ATOM	17593	CA	LYS	J	189	11.351	126.564	182.499	1.00120.29
ATOM	17594	C	LYS	J	189	11.236	125.119	182.968	1.00119.27
ATOM	17595	O	LYS	J	189	11.418	124.812	184.149	1.00118.75
ATOM	17596	CB	LYS	J	189	12.785	127.064	182.696	1.00120.97
ATOM	17597	CG	LYS	J	189	13.093	128.371	181.981	1.00121.83
ATOM	17598	CD	LYS	J	189	13.099	128.201	180.462	1.00123.21
ATOM	17599	CE	LYS	J	189	14.238	127.297	180.001	1.00123.18
ATOM	17600	NZ	LYS	J	189	14.289	127.152	178.517	1.00122.80
ATOM	17601	N	SER	J	190	10.924	124.237	182.029	1.00118.24
ATOM	17602	CA	SER	J	190	10.769	122.824	182.320	1.00117.26
ATOM	17603	C	SER	J	190	12.041	122.214	182.880	1.00116.47
ATOM	17604	O	SER	J	190	13.053	122.128	182.189	1.00116.89
ATOM	17605	CB	SER	J	190	10.366	122.073	181.052	1.00118.08
ATOM	17606	OG	SER	J	190	10.248	120.682	181.296	1.00119.46

ATOM	17607	N	GLN	J	191	11.978	121.794	184.138	1.00115.35
ATOM	17608	CA	GLN	J	191	13.106	121.159	184.810	1.00114.50
ATOM	17609	C	GLN	J	191	12.596	119.842	185.384	1.00113.96
ATOM	17610	O	GLN	J	191	11.438	119.757	185.798	1.00114.95
ATOM	17611	CB	GLN	J	191	13.613	122.045	185.942	1.00115.22
ATOM	17612	CG	GLN	J	191	12.505	122.562	186.841	1.00117.42
ATOM	17613	CD	GLN	J	191	13.024	123.126	188.149	1.00118.41
ATOM	17614	OE1	GLN	J	191	13.481	122.383	189.022	1.00118.53
ATOM	17615	NE2	GLN	J	191	12.962	124.447	188.290	1.00117.76
ATOM	17616	N	ASN	J	192	13.439	118.815	185.410	1.00112.21
ATOM	17617	CA	ASN	J	192	13.006	117.529	185.947	1.00110.39
ATOM	17618	C	ASN	J	192	12.427	117.702	187.339	1.00109.84
ATOM	17619	O	ASN	J	192	13.041	118.341	188.192	1.00110.10
ATOM	17620	CB	ASN	J	192	14.170	116.548	186.006	1.00109.13
ATOM	17621	CG	ASN	J	192	14.416	115.864	184.687	1.00108.06
ATOM	17622	OD1	ASN	J	192	13.516	115.245	184.123	1.00106.77
ATOM	17623	ND2	ASN	J	192	15.641	115.965	184.186	1.00108.93
ATOM	17624	N	LEU	J	193	11.245	117.139	187.567	1.00108.53
ATOM	17625	CA	LEU	J	193	10.610	117.247	188.874	1.00108.14
ATOM	17626	C	LEU	J	193	10.501	115.918	189.618	1.00107.77
ATOM	17627	O	LEU	J	193	10.503	114.847	189.009	1.00107.91
ATOM	17628	CB	LEU	J	193	9.221	117.879	188.747	1.00107.93
ATOM	17629	CG	LEU	J	193	9.152	119.407	188.804	1.00107.49
ATOM	17630	CD1	LEU	J	193	7.697	119.842	188.804	1.00108.35
ATOM	17631	CD2	LEU	J	193	9.838	119.914	190.063	1.00108.39
ATOM	17632	N	GLY	J	194	10.416	116.013	190.945	1.00106.49
ATOM	17633	CA	GLY	J	194	10.300	114.843	191.795	1.00104.19
ATOM	17634	C	GLY	J	194	9.616	115.237	193.089	1.00103.56
ATOM	17635	O	GLY	J	194	9.722	116.388	193.511	1.00102.88
ATOM	17636	N	TYR	J	195	8.916	114.295	193.719	1.00103.39
ATOM	17637	CA	TYR	J	195	8.210	114.571	194.968	1.00103.32
ATOM	17638	C	TYR	J	195	8.048	113.333	195.855	1.00103.52
ATOM	17639	O	TYR	J	195	8.113	112.202	195.377	1.00101.74
ATOM	17640	CB	TYR	J	195	6.825	115.143	194.666	1.00104.48
ATOM	17641	CG	TYR	J	195	5.904	114.147	193.993	1.00105.63
ATOM	17642	CD1	TYR	J	195	6.100	113.774	192.662	1.00105.60
ATOM	17643	CD2	TYR	J	195	4.862	113.543	194.702	1.00105.21
ATOM	17644	CE1	TYR	J	195	5.282	112.820	192.051	1.00104.39
ATOM	17645	CE2	TYR	J	195	4.041	112.588	194.101	1.00105.31
ATOM	17646	CZ	TYR	J	195	4.257	112.232	192.776	1.00104.14
ATOM	17647	OH	TYR	J	195	3.450	111.286	192.186	1.00103.32
ATOM	17648	N	TYR	J	196	7.826	113.570	197.147	1.00105.24
ATOM	17649	CA	TYR	J	196	7.628	112.508	198.134	1.00107.83
ATOM	17650	C	TYR	J	196	6.795	113.062	199.285	1.00110.96
ATOM	17651	O	TYR	J	196	6.458	114.243	199.285	1.00111.97
ATOM	17652	CB	TYR	J	196	8.979	111.983	198.651	1.00106.53
ATOM	17653	CG	TYR	J	196	9.781	112.926	199.541	1.00104.08
ATOM	17654	CD1	TYR	J	196	9.376	113.201	200.850	1.00102.42
ATOM	17655	CD2	TYR	J	196	10.972	113.506	199.087	1.00102.35
ATOM	17656	CE1	TYR	J	196	10.135	114.023	201.688	1.00102.17
ATOM	17657	CE2	TYR	J	196	11.740	114.332	199.914	1.00100.83
ATOM	17658	CZ	TYR	J	196	11.316	114.584	201.214	1.00101.78
ATOM	17659	OH	TYR	J	196	12.072	115.383	202.044	1.00 99.70
ATOM	17660	N	LEU	J	197	6.466	112.223	200.265	1.00114.59
ATOM	17661	CA	LEU	J	197	5.656	112.670	201.405	1.00117.99
ATOM	17662	C	LEU	J	197	6.385	112.522	202.744	1.00119.49
ATOM	17663	O	LEU	J	197	7.554	112.150	202.776	1.00120.34
ATOM	17664	CB	LEU	J	197	4.343	111.879	201.454	1.00118.14
ATOM	17665	CG	LEU	J	197	3.660	111.560	200.119	1.00118.79
ATOM	17666	CD1	LEU	J	197	2.312	110.919	200.415	1.00119.39
ATOM	17667	CD2	LEU	J	197	3.484	112.819	199.272	1.00118.16
ATOM	17668	N	SER	J	198	5.689	112.820	203.842	1.00121.33

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